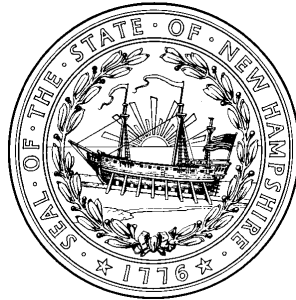


New Hampshire Vital Statistics Report, 1998



Jeanne Shaheen, Governor



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Department of Health and Human Services



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New Hampshire Vital Statistics Report, 1998

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EXECUTIVE SUMMARY

New Hampshire was recently awarded the title of Healthiest State in the Nation for the year 2000 by the Morgan Quitno Press. Many of the factors used to rank the states include data from calendar year 1998, and are presented in this report. In addition, this report contains much information of interest to researchers, health and community planners, students, as well as the general public. Some key points are presented below:

BIRTHS

- New Hampshire's 1998 birth rate, which has stabilized at 12.2 per 1,000 population, is at its lowest point on record, less than half of the rate during the post-World War II baby boom.
- New Hampshire's current birth rate is nearly 13% lower than the US white rate of 14.0 per 1,000 live births and is the fourth lowest birth rate in the nation.
- Resident births totaled 14,433. This represents a slight increase above the prior year and interrupts what had been a continual decline since the 1989 peak of 17,801 births.
- The proportion of births to teen mothers is 7.6% and is the first decrease in this proportion since the 6.7% minimum experienced in 1992.
- Since 1992 the proportion of births to mothers in their 30's has increased by 12%. It is striking to note that the proportion of births to mothers age 40 and over has increased by more than 50%.
- The proportion of non-marital births has increased by 17.5% over the past five years, though the rate of increase has slowed. Currently, nearly one of every four babies is born to a single mother. The younger a baby's mother is, the more likely the mother is to be unmarried.
- New Hampshire's maternal smoking rate of 17.2% is nearly 23% higher than the US white rate. Though this rate continues a ten-year decrease, down from 23.2%, the proportion is still slightly above the decrease to 16.3% observed in 1996.
- The smoking rate is related to the age of the mother; it is highest among adolescent and teen mothers, with more than 36% of these mothers smoking cigarettes during pregnancy.
- The proportion of low birth weight births is 5.7% and ties New Hampshire for the second best rate nationally. This rate is 12.3% lower than the US white rate. The proportion is highest among adolescents, dropping through the 25-29 year old age group, before rising again through the 35 and over age group.
- The proportion of mothers receiving inadequate prenatal care increased slightly between 1997 and 1998 from 1.6% to 1.8% of all births. Teen mothers remain the most likely to receive inadequate prenatal care, with 4.7% of mothers under 20, and 6.1% under 18 receiving inadequate care.
- Conversely, 89.4% of mothers initiated early prenatal care, similar to the 1997 rate.

Executive Summary

- The New Hampshire Medicaid program paid for prenatal care and/or delivery for more than 1 out of every 5 births. Medicaid payment was much more common for mothers under age 25, where Medicaid payment was made in 48% of births, than for those 25 and older, where Medicaid payment was made in 11% of births.
- Caesarian section deliveries represented 17.9% of the births occurring within the state, nearly 15% lower than the US white rate. It is even more impressive that only 12.7% of women without a prior CSection delivered by this method. Similarly, New Hampshire maintains the second best white vaginal birth after prior caesarian (VBAC) rate in the nation at 40%, over 50% higher than the US white rate of 26%.

MORTALITY

- The 9,489 New Hampshire resident deaths represent the largest number of deaths in more than 75 years and corresponds to a crude death rate of 8 per 1,000 residents
- Heart disease is the leading cause of death and is responsible for 30% of all deaths, followed by cancer, which accounts for 25%.
- Motor vehicle crashes, affecting mostly younger age groups, are by far the greatest single cause of unintentional injury deaths, followed closely by falls, which have their greatest affect on the elderly.
- Suicides, which occur most frequently among teens, young adult and middle-aged males, are responsible for more deaths than occur from motor vehicle crashes.
- Firearms are by far the single most common method of committing suicide across all age groups, responsible for nearly 65% of suicides between the ages of 15-24 and nearly 80% of all suicides among the elderly population.
- The leading cause of premature death among New Hampshire residents was death due to cancer, while deaths resulting from unintentional injuries, primarily motor vehicle crashes, were the second leading cause of premature death.
- The number of deaths due to HIV/AIDS dropped from a peak of 45 deaths in 1995 and an age-adjusted rate of 3.6 per 100,000 to just 13 deaths in 1998. The composite 1997-98 rate of 0.9 per 100,000 is one-fourth of the 1995 rate and 72.7% below the US white rate.

INFANT MORTALITY

- New Hampshire's infant mortality rate is at its lowest point ever and is the lowest in the nation at 4.3 per 1,000 live births; this is nearly 30% below the US white rate.
- The 62 infant deaths also represent the lowest number on record and along with the infant mortality rate is half that rate from just ten years ago.
- The most significant improvements have occurred in the post-neonatal period (28 days to 1 year) with the number of deaths decreasing by a factor of four and the rate decreasing by 70%, so that for the first time in history, the post-neonatal mortality rate is slightly below 1.0 death per 1,000 births.

MARRIAGE

- With just under 10,000 marriages occurring in New Hampshire, the rate of 8.4 marriages per 1,000 people is at its lowest point on record; this rate is equal to the overall provisional US rate.
- First marriages for both the bride and groom now represent less than half of all marriages performed in this state, while third marriages for either party account for over 15%.
- While the median ages for brides and grooms remain relatively stable at 29 and 31 respectively, their education level has been increasing, with brides still slightly more highly educated than grooms, on average.

DIVORCE

- The 6,078 divorces granted in 1998 are the highest number ever recorded in a single year.
- The state divorce rate of 5.1 is 21.4% higher than the overall provisional US rate of 4.2 per 1,000 people.
- The ratio of marriages to divorces has decreased to 1.6:1 in 1998, compared to a value of 2:1 or greater prior to 1992.

Discussions that are more detailed can be found at the beginning of each section. Tables of events by town are provided for births, deaths, and marriages, as well as population figures used in the analyses. Divorce event totals are shown by county. Statewide and county tabulations are then provided detailing many health and social indicators.

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INTRODUCTION

The Bureau of Vital Records and Health Statistics, in the New Hampshire Department of Health and Human Services, was designated the state's center for health statistics by the state legislature in 1979 (RSA 126:1), and is authorized to collect and disseminate information relative to the health of New Hampshire's residents. This Bureau has now been separated into two individual bureaus, the Bureau of Vital Records and the Bureau of Health Statistics and Data Management.

The Bureau of Vital Records collects records of all births, deaths, infant deaths, fetal deaths, marriages, and divorces occurring in New Hampshire, and obtains copies of records of these events that occur out of state to New Hampshire residents. Confidentiality of these records is of utmost concern and is protected by state statute. Strict rules have been adopted to protect the privacy of individuals, yet allow for analysis of these records and publication of statistical reports. The Bureau of Health Statistics and Data Management analyzes and distributes statistical information from these records to government agencies and other public and private organizations. The information is used to plan, administer, and evaluate health programs.

The tables and graphs in this report provide significant insight into the information available from records of vital events. However, every indicator cannot be presented in detail within this report. The information presented is based on a consideration of data users' needs and a desire to provide information that is useful to the majority of readers. Reliability of the information is also of concern. Tables presented in earlier reports that detailed information at the community level and resulted in small numbers of events have been changed to present more reliable rates at the county and state level.

To request more detailed analysis of New Hampshire vital events data or statistics, or to obtain additional copies of this report, contact the Bureau of Health Statistics and Data Management, Department of Health and Human Services, 6 Hazen Drive, Concord, NH 03301, (603) 271-4477 or (800) 852-3345, Ext. 4477, or e-mail healthstats@dhhs.state.nh.us. Further information, as well as an electronic version of this report, is available on our web site: www.dhhs.state.nh.us/healthstats.

MATERIALS AND METHODS

VITAL RECORDS DATA

New Hampshire law requires that reports of all birth, death, fetal death, marriage, and divorce events be filed with the office of the State Registrar at the New Hampshire Department of Health and Human Services, Bureau of Vital Records. Depending on the event, filings are made by hospital personnel, physicians, funeral directors, city/town clerks, attorneys, and clerks of the courts.

Reports of New Hampshire resident births and deaths in other states, and Canada, are provided to the State Registrar, for statistical purposes only, under an inter-state/Canadian agreement for the exchange of vital events information. There is, however, no exchange of inter-state and Canadian marriage or divorce reports.

After the end of the calendar year, when the Bureau of Vital Records has received all the data, internal audits are performed to insure quality and consistency in the records. After the data is considered clean and reliable, the Bureau of Health Statistics and Data Management analyzes the data to produce this and other reports. The Bureau of Health Statistics and Data Management is authorized to disseminate information relative to the health of New Hampshire's residents, including the publication of regular statistical reports.

National comparisons are made with data published by the National Center for Health Statistics, Centers for Disease Control and Prevention, US Department of Health and Human Services.

POPULATION DATA

The New Hampshire Office of State Planning (OSP) provides information on New Hampshire's population to the Bureau of Health Statistics and Data Management. OSP publishes US Census-based population estimates of the total number of non-transient residents of cities and towns. OSP also publishes estimates of the population of counties broken down by age groupings, sex, and race. Because of differences between the methodologies used, the city/town based county population estimates may not agree with the county estimates broken down by age, sex, and race. More information on New Hampshire's estimated and projected populations can be found at the OSP's State Data Center web site at www.state.nh.us/osp/planning/sdc.html.

SUMMARY RATE METHODOLOGY

Summary rates by county for births, mortality, marriage, and divorce (Table 1), are crude rates per 1,000 population. The infant mortality rate (death under one year of age) is based upon 1,000 live births, and is calculated based on a five-year sum of infant deaths. Five years are aggregated because the total number of infant deaths is so small. Even when using a five-year period, some county rates could not be calculated because of concerns about statistical reliability. (The Bureau of Health Statistics and Data Management does not calculate rates for events with less than 20 occurrences.) A statewide infant mortality rate for just 1998 is calculated in Table 2.

The fetal death rate is also based upon 1,000 live births. Fetal mortality is death prior to the complete expulsion or extraction from the mother of a fetus, when the length of gesta-

tion period has been 20 weeks or more, and/or the weight of the fetus is 350 grams or more. Death is determined by the fact that after separation, the fetus does not breathe or show other evidence of life, such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles.

Resident rates for marriages and divorces are not calculated because we receive no data on out of state marriages and divorces that occur to New Hampshire residents.

BIRTH METHODOLOGY

Birth refers to a live birth, irrespective of the duration of pregnancy, in which, after separation, the fetus breathes or shows any evidence of life, such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles, whether or not the umbilical cord has been severed or the placenta is attached.

The total of the number of births is reported by town. Hospital practices are reported on by hospital. Specific characteristics of the mother and child are reported only by county to protect confidentiality.

Births by Town

The table of births by town reports the town the mother said she resided in when the child was born. Very rarely this information is unknown (1 birth in 1998) and this lack of information is noted in the table.

Method of Delivery by Hospital

The table showing hospital practices regarding method of delivery (cesarean section rates, etc.) reports information for New Hampshire hospitals and shows all births at the facility, regardless of the residence of the mother. Information on births to New Hampshire residents at out-of-state hospitals is not reported. The rates presented are based on different denominators:

- Vaginal rate and the cesarean rate is based on the total number of births.
- The primary c-section rate is based on the number of births to woman who have not had a prior c-section (primary c-sections are those where this birth is the mother's first c-section).
- The vaginal births after c-section (VBAC) rate is based on births to women who previously had one or more deliveries by c-section.

Birth Characteristics by County

Selected characteristics of the child and the mother are reported on at the county level, and by the age group of the mother. All of the percentages are based on the number of births where the particular characteristic was known at the time of analysis. For instance, the percentage for low gestational age was based on only those births where the gestational age at birth was known. Where there are fewer than 100 births with known information, a percentage is not calculated. The percentages for characteristics of the mother are based on the number of births.

The specific characteristics reported on include:

- sex, birth weight (whether low or very low), and gestational age (whether low) of the infant;

- whether or not the mother received appropriate prenatal care;
- the marital status of the mother;
- whether Medicaid provided payment for prenatal care, delivery, or both;
- whether the mother reported consuming tobacco or alcohol at any point during the pregnancy; and
- whether the mother had less than 12 years education or did not complete high school or the equivalent.

MORTALITY METHODOLOGY

The total of the number of deaths is reported by town. Information about the cause of death is reported only by county to protect confidentiality. The total number of mortalities includes one case where the cause of death is unknown. That case is excluded from statistical analyses with the exception of analyses of race, Hispanic origin and places of death.

Cause of Death

In all but one table, the causes of death shown are the underlying cause of death. In a death record, the underlying cause of death is the specific disease, condition, or injury that initiated the chain of events leading to death. The underlying cause of death is not always the same as the immediate cause of death. For example, in the case of a person who fell, broke a hip, was hospitalized, and then died of pneumonia contracted in the hospital, the underlying cause of death would likely be the fall.

Table 65, comparing underlying causes of death to cause of death disease mentions is the only place where we report on all the different contributing causes in an individual's death record, not just the underlying cause. This table is useful for assessing the impact of conditions that contribute to causing deaths more often than being an underlying cause. Diabetes mellitus, mental disorders, and hypertension are three major disease groups that appear much more frequently as contributing factors than as underlying causes.

In this report, causes are usually grouped to allow for easier examination of causes of mortality. The groupings are meant to be as comparable as possible to those appearing in the National Vital Statistics Reports. However, because New Hampshire is a small state we do not report all the cause groupings shown in the national data.

Age Adjustment and National Comparisons

For making comparisons that are more accurate from year to year, or to national averages, it is necessary to calculate and compare using age-adjusted death rates. Age-adjustment compensates for differences in the age distributions being compared. It is important to consider the underlying age distribution because death rates for most causes vary by age. Comparing death rates for specific age groups is another alternative. To conform to the data published in the National Vital Statistics Reports we used the enumerated 1940 United States population to weight the data when calculating the age-adjusted death rates.

For our mortality comparisons to the US population, we used the US white rate. New Hampshire is a predominately white state. Where race was known, whites accounted for 99.5% of deaths. Because many causes of death are influenced by race, we believe using the US white rate makes the best comparison of New Hampshire to the US population.

Infant Mortality

Infant mortality is defined as death at less than one year of age. Infant mortality rates are based on 1,000 live births. Because the number of infant deaths is so small, five years of data are aggregated in the tables. Even when using a five-year period, many rates for nationally used causes of infant death could not be calculated.

MARRIAGE METHODOLOGY

Marriage occurrences are reported according to the city or town where the marriage license was issued, rather than the location of the marriage ceremony. The place of issuance need not be the same as the location of the actual ceremony.

DIVORCE METHODOLOGY

The divorce occurrences that are reported on include legal separations and annulments. In New Hampshire, the Superior Courts, which operate at the county level, have jurisdiction over divorce and custody cases. Because of the desire to show court caseload, and the difficulty of determining the correct city or town to assign a divorce to, divorce totals are reported at the county level.

Much of what is reported in the divorce section is information about the resolution of physical child custody cases resulting from divorce. The types of physical custody cases are uncontested, defaulted, or contested. Three separate tables report on each of these types of physical custody cases. In the tables, we report on both the number of custody cases and the number of children involved. Typically, all the siblings in a family are awarded as a group either solely to the mother or father, or jointly to both the mother and father. More rarely, physical custody of siblings is split, where at least one child is awarded to the mother (or another party) and at least one child awarded to the father (or another party). A further permutation of split custody occurs when one or more children are awarded solely to one parent and physical custody of other children in the family is given to both parents jointly. The tables present the number of divorce cases where split custody was given and the number of children awarded to each type of party (mother, father, joint, or other). Assignment of physical custody does not indicate any visitation rights the decree may include for the non-custodial parent.

VITAL STATISTICS SUMMARY

1. Vital Event Rates¹ by County ■ New Hampshire, 1998

County	Birth Rate	Crude Mortality Rate	Infant Mortality Rate (1994-98)	Marriage Rate	Divorce Rate
Belknap	10.8	10.0	-	9.6	5.0
Carroll	10.3	11.2	-	11.8	5.5
Cheshire	10.1	9.4	5.8	8.5	4.6
Coos	9.4	12.8	-	7.2	5.0
Grafton	10.6	9.2	-	8.4	5.6
Hillsborough	13.3	7.2	5.1	7.8	4.6
Merrimack	11.9	9.0	4.7	7.8	5.6
Rockingham	13.1	6.5	4.1	9.3	5.4
Strafford	11.8	7.2	6.0	7.5	5.4
Sullivan	11.6	9.6	-	7.5	5.2
New Hampshire	12.2	8.0	5.0	8.4	5.1

Rates: for major events rates are per 1,000 population, with the exception of the Infant Mortality rates, which is calculated based upon 1,000 live births. The Infant Mortality Rate is based on the five year period, 1994-1998. The Marriage and Divorce rates are based on occurrences in the county, not residence.

“-“ indicates that a rate could not be calculated as rates based on <20 events do not meet the standard of reliability.

2. Vital Statistics ■ New Hampshire, 1998

Event	Residents		Occurrences
	Number	Rate	
Births ²	14,433	12.2	13,952
Mortality	9,489	8.0	9,486
Infant mortality ³	62	4.3	54
Fetal death ⁴	64	4.4	72
Marriage ⁵			9,921
Divorce ⁶			6,078

Resident: an individual whose legal place of residence is within the borders of the state of New Hampshire, regardless of place of occupancy or place event occurred. New Hampshire does not receive information on out of state marriage and divorce occurrences to residents, so no resident information can be reported.

Occurrence: a vital event that takes place within the borders of the State of New Hampshire, regardless of place of residence. Marriages and divorces are reported on only as occurrences.

POPULATION

3. Population Estimates by Town and County ■ New Hampshire, 1998

	Population		Population
Belknap County		Marlow	661
Alton	3,493	Nelson	578
Barnstead	3,237	Richmond	955
Belmont	6,228	Rindge	5,358
Center Harbor	1,045	Roxbury	257
Gilford	5,967	Stoddard	650
Gilmanton	2,748	Sullivan	722
Laconia	17,130	Surry	694
Meredith	5,070	Swanzey	6,713
New Hampton	1,779	Troy	2,130
Sanbornton	2,253	Walpole	3,359
Tilton	3,319	Westmoreland	1,683
County Total	52,269	Winchester	4,223
		County Total	73,062
Carroll County		Coos County	
Albany	581	Berlin	11,924
Bartlett	2,512	Cambridge	8
Brookfield	530	Carroll	625
Chatham	274	Clarksville	237
Conway	8,481	Colebrook	2,623
Eaton	367	Columbia	740
Effingham	952	Dalton	854
Freedom	963	Dixville	25
Hart's Location	30	Dummer	327
Jackson	709	Errol	303
Madison	1,818	Gorham	3,093
Moultonborough	3,243	Jefferson	1,009
Ossipee	3,376	Lancaster	3,509
Sandwich	1,112	Milan	1,338
Tamworth	2,230	Millsfield	14
Tuftonboro	1,911	Northumberland	2,613
Wakefield	3,221	Pittsburg	916
Wolfeboro	5,188	Randolph	380
County Total	37,498	Shelburne	439
		Stark	527
Cheshire County		County Total	31,504
Alstead	1,759	Grafton County	
Chesterfield	3,290	Alexandria	1,330
Dublin	1,533	Ashland	2,027
Fitzwilliam	2,055	Bath	819
Gilsum	749	Benton	318
Harrisville	1,021	Bethlehem	2,152
Hinsdale	4,089	Bridgewater	834
Jaffrey	5,434	Bristol	2,654
Keene	23,090		
Marlborough	2,059		

Population

3. Population Estimates by Town and County ■ New Hampshire, 1998 (continued)

	Population		Population
Campton	2,473	Litchfield	6,844
Canaan	3,292	Lyndeborough	1,461
Dorchester	385	Manchester	105,221
Easton	230	Mason	1,288
Ellsworth	86	Merrimack	23,899
Enfield	4,222	Milford	12,859
Franconia	864	Mont Vernon	1,982
Grafton	971	Nashua	83,209
Groton	341	New Boston	3,753
Hanover	9,636	New Ipswich	4,306
Haverhill	4,196	Pelham	10,793
Hebron	424	Peterborough	5,686
Holderness	1,735	Sharon	333
Landaff	356	Temple	1,259
Lebanon	12,768	Weare	6,865
Lincoln	1,413	Wilton	3,332
Lisbon	1,771	Windsor	119
Littleton	6,052	County Total	363,917
Lyman	417		
Lyme	1,544	Merrimack County	
Monroe	755	Allenstown	4,850
Orange	257	Andover	1,979
Orford	1,039	Boscawen	3,607
Piermont	651	Bow	6,503
Plymouth	6,526	Bradford	1,416
Rumney	1,443	Canterbury	1,800
Sugar Hill	494	Chichester	2,115
Thornton	1,611	Concord	38,180
Warren	833	Danbury	953
Waterville	230	Dunbarton	2,094
Wentworth	664	Epsom	3,896
Woodstock	1,269	Franklin	8,408
County Total	79,082	Henniker	4,139
		Hill	868
Hillsborough County		Hooksett	9,674
Amherst	10,229	Hopkinton	5,059
Antrim	2,375	Loudon	4,553
Bedford	15,911	Newbury	1,660
Bennington	1,273	New London	3,658
Brookline	3,408	Northfield	4,517
Deering	1,765	Pembroke	6,733
Francestown	1,254	Pittsfield	3,961
Goffstown	15,951	Salisbury	1,137
Greenfield	1,517	Sutton	1,479
Greenville	2,222	Warner	2,483
Hancock	1,655	Webster	1,498
Hillsboro	4,665	Wilmot	1,003
Hollis	6,760	County Total	128,223
Hudson	21,723		

3. Population Estimates by Town and County ■ New Hampshire, 1998 (continued)

Population		Population	
Rockingham County		New Durham	
Atkinson	6,071	Rochester	2,055
Auburn	4,506	Rollinsford	27,800
Brentwood	3,003	Somersworth	2,740
Candia	3,799	Strafford	11,679
Chester	3,290	County Total	3,294
Danville	3,622		
Deerfield	3,449	Sullivan County	
Derry	32,183	Acworth	779
East Kingston	1,647	Charlestown	4,732
Epping	5,572	Claremont	13,856
Exeter	13,409	Cornish	1,676
Fremont	3,166	Croydon	684
Greenland	3,083	Goshen	782
Hampstead	7,618	Grantham	1,404
Hampton	13,342	Langdon	644
Hampton Falls	1,755	Lempster	1,036
Kensington	1,787	Newport	6,304
Kingston	5,838	Plainfield	2,198
Londonderry	21,854	Springfield	893
New Castle	831	Sunapee	2,700
Newfields	1,332	Unity	1,448
Newington	777	Washington	812
Newmarket	7,715	County Total	39,948
Newton	3,915		
North Hampton	3,984	New Hampshire Total	1,185,083
Northwood	3,283		
Nottingham	3,251		
Plaistow	7,873		
Portsmouth	23,100		
Raymond	9,246		
Rye	4,738		
Salem	27,525		
Sandown	4,785		
Seabrook	6,944		
South Hampton	790		
Stratham	5,810		
Windham	9,978		
County Total	264,871		
Strafford County			
Barrington	6,896		
Dover	26,658		
Durham	12,900		
Farmington	6,009		
Lee	4,093		
Madbury	1,525		
Middleton	1,242		
Milton	3,781		

Population

4. Population Estimates by County, Age Group and Year ■ New Hampshire, 1998⁷ and 2000⁸

	1998	2000		1998	2000
Belknap County			Cheshire County		
0-4 years	2,927	3,184	0-4 yrs	4,060	4,328
5-9	3,700	3,774	5-9	5,108	5,123
10-14	4,255	3,913	10-14	5,336	5,305
15-19	3,480	3,835	15-19	5,804	6,474
20-24	2,170	3,656	20-24	4,627	5,949
25-29	3,124	3,220	25-29	4,141	4,169
30-34	4,009	2,841	30-34	5,145	4,392
35-39	4,934	3,902	35-39	6,586	5,110
40-44	4,615	4,460	40-44	5,999	5,665
45-49	3,753	4,338	45-49	5,127	5,644
50-54	3,131	3,999	50-54	4,388	4,988
55-59	2,317	2,858	55-59	3,096	3,807
60-64	2,062	2,141	60-64	2,623	2,906
65-69	2,340	1,895	65-69	2,637	2,519
70-74	2,105	2,014	70-74	2,469	2,545
75-79	1,601	1,659	75-79	2,059	2,136
80-84	1,014	1,136	80-84	1,381	1,551
85+	944	928	85+	1,242	1,378
County Total⁹	52,481	53,753	County Total	71,828	73,989
Carroll County			Coos County		
0-4 yrs	2,106	2,286	0-4 yrs	1,684	2,154
5-9	2,741	3,002	5-9	2,165	2,310
10-14	2,876	3,089	10-14	2,570	2,301
15-19	2,185	2,843	15-19	2,224	2,389
20-24	1,336	2,508	20-24	1,328	2,376
25-29	2,120	2,109	25-29	1,762	2,350
30-34	2,957	1,841	30-34	2,252	1,943
35-39	3,869	2,740	35-39	2,868	2,415
40-44	3,452	3,443	40-44	2,491	2,754
45-49	2,795	3,425	45-49	2,128	2,690
50-54	2,313	3,026	50-54	2,161	2,257
55-59	1,947	2,205	55-59	1,747	1,790
60-64	1,747	1,629	60-64	1,455	1,552
65-69	2,032	1,638	65-69	1,663	1,574
70-74	1,753	1,707	70-74	1,512	1,536
75-79	1,387	1,556	75-79	1,220	1,346
80-84	930	1,044	80-84	846	844
85+	800	997	85+	799	861
County Total	39,346	41,088	County Total	32,875	35,442

4. Population Estimates by County, Age Group and Year ■ New Hampshire, 1998 and 2000 (continued)

	1998	2000		1998	2000
Grafton County			Merrimack County		
0-4 yrs	4,175	4,496	0-4 yrs	7,751	7,800
5-9	5,173	5,399	5-9	9,330	10,100
10-14	5,578	5,392	10-14	9,865	10,144
15-19	6,927	7,436	15-19	8,434	9,678
20-24	6,431	7,215	20-24	6,203	8,763
25-29	4,627	4,376	25-29	8,574	7,535
30-34	5,621	5,606	30-34	11,134	7,396
35-39	7,124	5,657	35-39	13,113	10,053
40-44	6,515	6,209	40-44	11,426	11,642
45-49	5,278	6,158	45-49	9,222	10,801
50-54	4,342	5,432	50-54	7,289	8,953
55-59	3,303	3,994	55-59	5,522	6,540
60-64	2,738	2,903	60-64	4,225	4,600
65-69	2,821	2,722	65-69	3,942	4,269
70-74	2,586	2,549	70-74	3,541	3,822
75-79	2,212	2,159	75-79	3,233	3,202
80-84	1,510	1,549	80-84	2,343	2,383
85+	1,316	1,548	85+	2,234	2,795
County Total	78,277	80,800	County Total	127,381	130,476
Hillsborough County			Rockingham County		
0-4 yrs	23,875	23,487	0-4 yrs	17,605	16,817
5-9	26,074	29,712	5-9	19,816	22,567
10-14	27,433	29,628	10-14	20,783	22,951
15-19	24,320	26,317	15-19	16,956	19,678
20-24	19,840	23,374	20-24	12,989	17,680
25-29	27,976	21,563	25-29	19,821	16,160
30-34	31,799	23,872	30-34	24,826	16,825
35-39	35,618	33,217	35-39	28,627	24,374
40-44	32,960	33,724	40-44	26,227	27,071
45-49	26,639	29,186	45-49	20,592	24,262
50-54	21,376	26,129	50-54	16,397	21,422
55-59	14,798	18,944	55-59	11,070	15,115
60-64	11,239	13,753	60-64	7,611	10,782
65-69	11,025	11,554	65-69	8,073	8,805
70-74	10,041	10,205	70-74	7,170	7,176
75-79	7,869	8,276	75-79	5,575	5,737
80-84	5,402	5,861	80-84	3,776	3,989
85+	4,747	5,375	85+	3,238	3,731
County Total	363,031	374,177	County Total	271,152	285,142

Population

4. Population Estimates by County, Age Group and Year ■ New Hampshire, 1998 and 2000 (continued)

	1998	2000		1998	2000
Strafford County			New Hampshire		
0-4 yrs	6,634	6,717	0-4 yrs	73,120	73,898
5-9	7,672	8,323	5-9	84,578	93,235
10-14	7,443	8,247	10-14	89,299	93,864
15-19	8,990	10,521	15-19	81,939	91,905
20-24	8,805	8,330	20-24	65,436	82,483
25-29	8,196	6,001	25-29	82,586	70,004
30-34	8,902	9,194	30-34	99,470	76,146
35-39	9,694	9,825	35-39	116,191	100,081
40-44	8,427	9,534	40-44	105,567	107,613
45-49	7,172	7,972	45-49	85,558	97,622
50-54	6,108	6,763	50-54	69,891	85,816
55-59	4,654	5,109	55-59	50,345	62,530
60-64	3,467	3,902	60-64	38,767	45,804
65-69	3,651	3,668	65-69	39,965	40,198
70-74	3,103	3,203	70-74	36,038	36,243
75-79	2,588	2,735	75-79	29,023	30,108
80-84	1,747	1,791	80-84	19,762	21,127
85+	1,397	1,574	85+	17,513	20,120
County Total	108,650	113,409	Total	1,185,048	1,228,797
Sullivan County					
0-4 yrs	2,303	2,629			
5-9	2,799	2,925			
10-14	3,160	2,894			
15-19	2,619	2,734			
20-24	1,707	2,632			
25-29	2,245	2,521			
30-34	2,825	2,236			
35-39	3,758	2,788			
40-44	3,455	3,111			
45-49	2,852	3,146			
50-54	2,386	2,847			
55-59	1,891	2,168			
60-64	1,600	1,636			
65-69	1,781	1,554			
70-74	1,758	1,486			
75-79	1,279	1,302			
80-84	813	979			
85+	796	933			
County Total	40,027	40,521			

5. Population Estimates by Race and County ■ New Hampshire, 1998¹⁰

County	Race	Population
Belknap	White	51,920
	Black	111
	American Indian/Eskimo	131
	Asian/Pacific Islander	319
Carroll	White	39,032
	Black	76
	American Indian/Eskimo	77
	Asian/Pacific Islander	161
Cheshire	White	71,001
	Black	237
	American Indian/Eskimo	154
	Asian/Pacific Islander	436
Coos	White	32,597
	Black	43
	American Indian/Eskimo	68
	Asian/Pacific Islander	167
Grafton	White	76,516
	Black	467
	American Indian/Eskimo	190
	Asian/Pacific Islander	1,104
Hillsborough	White	352,838
	Black	3,681
	American Indian/Eskimo	709
	Asian/Pacific Islander	5,803
Merrimack	White	125,610
	Black	602
	American Indian/Eskimo	257
	Asian/Pacific Islander	912
Rockingham	White	264,502
	Black	2,621
	American Indian/Eskimo	470
	Asian/Pacific Islander	3,559
Strafford	White	106,464
	Black	594
	American Indian/Eskimo	228
	Asian/Pacific Islander	1,364
Sullivan	White	39,605
	Black	70
	American Indian/Eskimo	139
	Asian/Pacific Islander	213
State Total	White	1,160,085
	Black	8,502
	American Indian/Eskimo	2,423
	Asian/Pacific Islander	14,038

6. Population Estimates by Hispanic Origin ■ New Hampshire, 1998

County	Hispanic Origin/Race	Population
Belknap	Hispanic, White	383
	Hispanic, Other Race	37
	Non-Hispanic, White	51,537
	Non-Hispanic, Other Race	524
Carroll	Hispanic, White	209
	Hispanic, Other Race	10
	Non-Hispanic, White	38,823
	Non-Hispanic, Other Race	304
Cheshire	Hispanic, White	469
	Hispanic, Other Race	23
	Non-Hispanic, White	70,532
	Non-Hispanic, Other Race	804
Coos	Hispanic, White	206
	Hispanic, Other Race	13
	Non-Hispanic, White	32,391
	Non-Hispanic, Other Race	265
Grafton	Hispanic, White	833
	Hispanic, Other Race	63
	Non-Hispanic, White	75,683
	Non-Hispanic, Other Race	1,698
Hillsborough	Hispanic, White	8,103
	Hispanic, Other Race	930
	Non-Hispanic, White	344,735
	Non-Hispanic, Other Race	9,263
Merrimack	Hispanic, White	1,117
	Hispanic, Other Race	123
	Non-Hispanic, White	124,493
	Non-Hispanic, Other Race	1,648
Rockingham	Hispanic, White	3,525
	Hispanic, Other Race	327
	Non-Hispanic, White	260,977
	Non-Hispanic, Other Race	6,323
Strafford	Hispanic, White	1,210
	Hispanic, Other Race	80
	Non-Hispanic, White	105,254
	Non-Hispanic, Other Race	2,106
Sullivan	Hispanic, White	242
	Hispanic, Other Race	18
	Non-Hispanic, White	39,363
	Non-Hispanic, Other Race	404
State Total	Hispanic, White	16,297
	Hispanic, Other Race	1,624
	Non-Hispanic, White	1,143,788
	Non-Hispanic, Other Race	23,339

BIRTH

There were 14,433 births to New Hampshire residents during 1998, 158 more births than recorded in the prior year. This slight increase interrupts what had been an eight-year decline from a peak of 17,801 resident births recorded in 1989. New Hampshire's birth rate, which had been declining over the same eight-year period, has also stabilized. The current rate, which remains at 12.2 per 1,000 population for the second consecutive year, is 24.2% below the 1989 rate of 16.1 per 1,000 and is the lowest since this information was first reported more than 110 years ago. New Hampshire's highest birth rate occurred at the height of the post World War II era and was more than double today's birth rate. In addition, New Hampshire's birth rate ties for the fourth lowest in the nation and is 12.9% lower than the US white rate of 14.0 per 1,000 population.¹¹

A number of trends related to high-risk births that are worthy of discussion. Currently, 7.6% of all births are to teen mothers. This proportion is slightly lower than the 7.8% reported in 1997 and stems what had been a five-year increasing trend observed since the 6.7% minimum experienced in 1992. These values can be compared to the maximum of 15.2% of all births attributed to teen mothers observed in 1972. Since 1992, the proportion of births to mothers in the age group 20 to 29 has decreased by nearly 12% while the proportion of births to mothers in their 30's has increased by a comparable proportion. It is striking to note that the proportion of births to mothers age 40 and over has increased by more than 50% during the same period. In addition to maintaining the country's third lowest overall fertility rate at 52.3 births per 1,000 females aged 15-44 (19.0% below the US white rate of 64.6), the low teen fertility rate in New Hampshire is second only to Vermont at 27.1 per 1,000 females aged 15-19 (40.3% below the US white rate).¹²

The proportion of non-marital births continues to increase, though the rate of increase has slowed. Currently, nearly one of every four babies is born to a single mother. New Hampshire's rate of 24.2% live births to single mothers is 1.7% above last year's rate, an increase of 17.5% over the past five years. This rate is the third lowest in the nation and 8.0% lower than the US white rate of 26.3%.¹³ The rate of non-marital births is inversely related to the age of the mother. The highest proportion is observed in the adolescent age group (under age 18), where 96.5% of births are non-marital. The proportion of non-marital births is slightly lower among older teens at 84.3% and drops to 50.1% in the 20-24 year old age group, 15.4% among women in their mid to late 20's, and 8.6% among women in their 30's. The exception to this relationship to age is the slight increase in the proportion of non-marital births among women aged 40 and above to 9.3%. Although the numbers in this upper age group are relatively small, this slight increase mimics what is observed on a nationwide basis.

Maternal cigarette smoking is a major risk factor affecting the developing fetus and is a factor causing low birth weights. Following last year's rise after a six-year decline in the maternal smoking rate, the proportion of mothers who smoked dropped slightly from 17.4% in 1997 to 17.2% in 1998. This decreasing trend mimics what is observed on a national level.¹⁴ New Hampshire, however, does not compare well nationally. Its maternal smoking rate is 22.9% higher than the US white rate.¹⁵ The smoking rate is also inversely related to the age of the mother. The rate is highest among adolescent and teen mothers, with more than 36% of these young mothers smoking cigarettes during pregnancy. The rate declines

with age to the 10.2% observed among women age 35-39, but then increases slightly to 11.2% among women age 40 and above.

The proportion of low birth weight births decreased slightly from 5.9% in 1997 to 5.7% in 1998. New Hampshire tied for the second lowest rate nationally, 12.3% below the US white proportion of 6.5% low birth weight births. The low birth weight rate follows an interesting relationship to the age of the mother. The rate is highest (7.4%) in the adolescent age group, then declines to 5.1% in the 25-29 year old age group before rising to 7.0% in mothers age 35-39, and then decreasing to 6.0% in mothers age 40 and over. Rates for low gestational age (babies born prior to 37 weeks of gestation) mimic the low birth weight distribution.

New Hampshire has witnessed a slight increase in the number and proportion of mothers who did not receive adequate prenatal care (no prenatal care, or medical care that commenced in the third trimester). The proportion of mothers receiving inadequate prenatal care increased between 1997 and 1998 from 1.6% to 1.8% of all births. Indications from preliminary 1999 data are that the proportion of mothers receiving inadequate prenatal care fell to their lowest levels ever. This risk factor is related to the age of the mother, as 6.1% of young teen mothers and 4.1% of older teen mothers lacked adequate prenatal care.

More positive results are observed among the proportion of women initiating early prenatal care (medical care within the first trimester), which represents 89.4% of mothers in 1998, almost the same as the 1997 rate. As expected, the reciprocal age association holds true with only 65.2% of young teens and 77.1% of older teens receiving early prenatal care.

Following a slight increase in 1997, the proportion of mothers with less than a twelfth grade education dropped back below its earlier level to 10.4% in 1998. This increase may be attributed to the fluctuation in teen births, because of the obvious association between mother's age and education (91.1% of young teen mothers possessed less than a twelfth grade education). The proportion of mothers with less than a twelfth grade education remained relatively high at 48.3% among older teens, and was 16.4% among mothers aged 20-24. This proportion declined to 3.6% overall among women age 25 and older.

Over the most recent three years, the proportion of mothers who reported that they consumed alcohol during their pregnancy has remained relatively stable, currently at 1.3%. This figure has dropped dramatically from the rate of 3.2% observed in 1992. While there appears to be an increase in alcohol use among teenage mothers, the rate is highest, at slightly more than 2%, among women age 35 and older.

The New Hampshire Medicaid program paid for prenatal care and/or delivery of 20.8% of all births in New Hampshire. This rate has increased slightly from the 1997 rate of 19.2%. This indicator of high-risk socioeconomic status is also age related, with 48.9% of teen mothers covered by Medicaid. This Medicaid assistance rate drops slightly to 45.4% among mothers aged 20-24, and decreases to 7.7% among women aged 30 and older. Medicaid assistance rates follow very closely the rates of non-marital births.

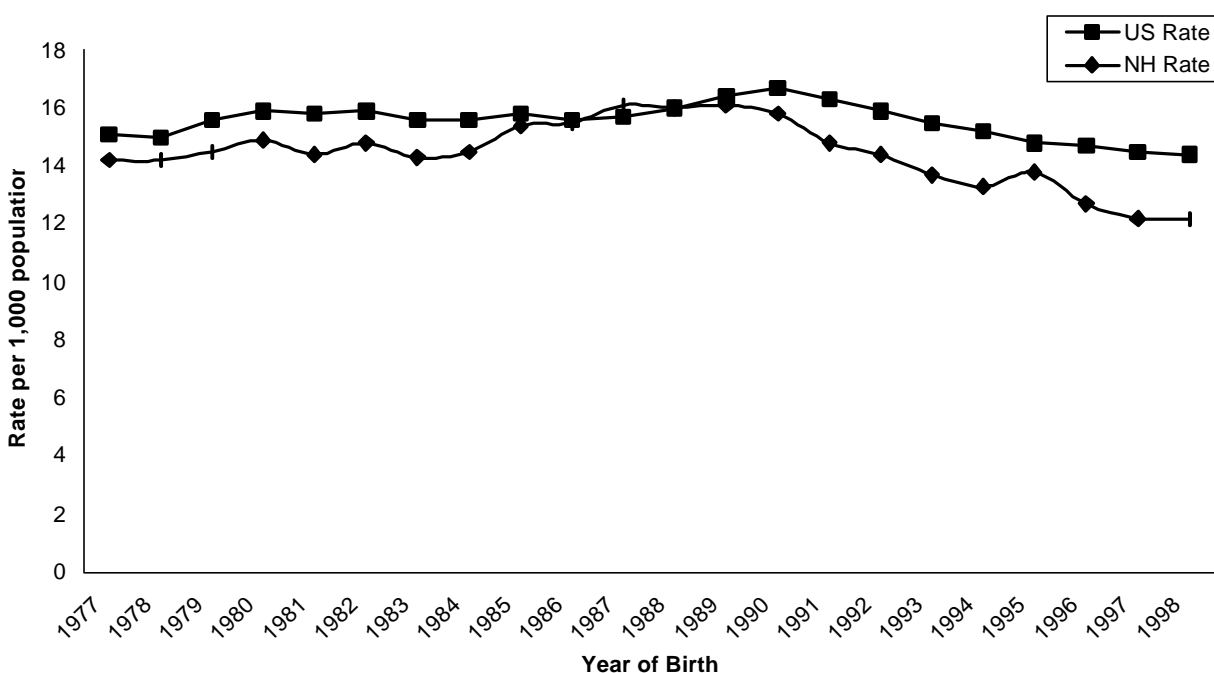
In addition to faring well nationally in relation to many of the birth risk factors discussed above, New Hampshire also ranks among the best in the country in measures related to cesarean section (c-section) deliveries. In 1998, 17.9% of the births occurring within New Hampshire were c-section deliveries, placing the state 14.8% lower than the US white rate of 21.0%. It is even more impressive that only 12.7% of women without a prior c-section, delivered by this method. Similarly, New Hampshire maintains the second highest white

vaginal birth after prior cesarean (VBAC) rate in the nation with 39.9% of women who had a prior c-section delivering their current birth vaginally. New Hampshire's VBAC rate is 52.3% higher than the US white rate of 26.2%.¹⁶

On a national level, there have been documented increases in multiple births due to older age at childbearing and the increased use of fertility drugs.¹⁷ In New Hampshire during 1998, 96.7% of the births were singletons, 3.1% were twins, and the remaining 0.2% were higher order births.

This year's report includes new information on congenital anomalies, abnormal conditions of the newborn, and complications of labor and delivery. Congenital anomalies are reported relatively infrequently, occurring in only 2.1% of all births. The most common anomalies are heart malformations and other circulatory/respiratory anomalies. Abnormal conditions are reported in newborns slightly more frequently, occurring in 6.5% of all births. The most common condition is the need for assisted ventilation. Complications of labor and delivery are relatively common occurrences observed in 35.3% of all births. The most common complications are moderate to heavy amounts of meconium present in the amniotic fluid, premature rupture of membranes, and breech or other malpresentation of the fetus. The percentages discussed above correspond closely to the numbers observed on a national basis.¹⁸

7. Birth Rate Trend ■ New Hampshire and United States, 1977-1998



8. Birth Occurrences¹⁹ ■ New Hampshire, 1998

Mother's State of Residence	Births
New Hampshire	12,813
Vermont	607
Maine	315
Massachusetts	206
Other	11
Total	13,952

9. Resident²⁰ Births ■ New Hampshire, 1998

State of Birth	Births
New Hampshire	12,813
Massachusetts	1,414
Vermont	95
Maine	81
Other	30
Total	14,433

10. Births by Town and County ■ New Hampshire, 1998

	Births		Births
Belknap County		Marlow	10
Alton	36	Nelson	5
Barnstead	43	Richmond	8
Belmont	81	Rindge	60
Center Harbor	5	Roxbury	4
Gilford	75	Stoddard	10
Gilmanton	38	Sullivan	7
Laconia	169	Surry	4
Meredith	48	Swanzey	73
New Hampton	15	Troy	27
Sanbornton	18	Walpole	41
Tilton	38	Westmoreland	17
County Total	566	Winchester	60
		County Total	740
Carroll County		Coos County	
Albany	3	Berlin	91
Bartlett	19	Carroll	7
Brookfield	5	Clarksville	2
Chatham	3	Colebrook	23
Conway	103	Columbia	3
Eaton	1	Dalton	11
Effingham	11	Errol	2
Freedom	8	Gorham	18
Jackson	14	Jefferson	9
Madison	16	Lancaster	41
Moultonborough	21	Milan	6
Ossipee	38	Millsfield	1
Sandwich	7	Northumberland	18
Tamworth	24	Pittsburg	8
Tuftsboro	21	Randolph	2
Wakefield	34	Shelburne	1
Wolfeboro	60	Stark	1
County Total	388	Stewartstown	14
		Stratford	13
Cheshire County		Whitefield	20
Alstead	28	County Total	291
Chesterfield	40		
Dublin	12	Grafton County	
Fitzwilliam	20	Alexandria	10
Gilsum	6	Ashland	26
Harrisville	5	Bath	7
Hinsdale	39	Bethlehem	23
Jaffrey	64	Bridgewater	5
Keene	180	Bristol	40
Marlborough	20		

10. Births by Town and County ■ New Hampshire, 1998 (continued)

	Births		Births
Campton	22	Hollis	55
Canaan	43	Hudson	301
Dorchester	2	Litchfield	128
Easton	3	Lyndeborough	19
Enfield	67	Manchester	1,518
Franconia	5	Mason	14
Grafton	11	Merrimack	309
Groton	4	Milford	199
Hanover	56	Mont Vernon	27
Haverhill	54	Nashua	1,107
Hebron	3	New Boston	64
Holderness	17	New Ipswich	76
Landaff	4	Pelham	129
Lebanon	155	Peterborough	50
Lincoln	17	Sharon	2
Lisbon	23	Temple	13
Littleton	72	Weare	106
Lyman	3	Wilton	34
Lyme	16	County Total	4,856
Monroe	3		
Orange	2	Merrimack County	
Orford	11	Allenstown	60
Piermont	11	Andover	25
Plymouth	51	Boscawen	38
Rumney	21	Bow	76
Thornton	24	Bradford	18
Warren	9	Canterbury	33
Waterville	2	Chichester	20
Wentworth	3	Concord	473
Woodstock	17	Danbury	8
County Total	842	Dunbarton	21
		Epsom	56
Hillsborough County		Franklin	108
Amherst	101	Henniker	46
Antrim	18	Hill	13
Bedford	189	Hooksett	132
Bennington	19	Hopkinton	47
Brookline	67	Loudon	51
Deering	16	Newbury	16
Fracestown	14	New London	7
Goffstown	151	Northfield	53
Greenfield	18	Pembroke	85
Greenville	26	Pittsfield	54
Hancock	13	Salisbury	12
Hillsboro	73	Sutton	17

10. Births by Town and County ■ New Hampshire, 1998 (continued)

	Births		Births
Warner	23	Strafford County	
Webster	23	Barrington	88
Wilmot	8	Dover	310
County Total	1523	Durham	46
		Farmington	84
Rockingham County		Lee	48
Atkinson	67	Madbury	16
Auburn	59	Middleton	16
Brentwood	42	Milton	40
Candia	61	New Durham	25
Chester	46	Rochester	414
Danville	80	Rollinsford	39
Deerfield	46	Somersworth	156
Derry	493	Strafford	25
East Kingston	26	County Total	1307
Epping	75		
Exeter	147	Sullivan County	
Fremont	55	Acworth	4
Greenland	35	Charlestown	49
Hampstead	90	Claremont	180
Hampton	188	Cornish	12
Hampton Falls	25	Croydon	6
Kensington	24	Goshen	13
Kingston	68	Grantham	17
Londonderry	270	Langdon	5
New Castle	10	Lempster	12
Newfields	27	Newport	78
Newington	9	Plainfield	26
Newmarket	105	Springfield	12
Newton	69	Sunapee	33
North Hampton	35	Unity	8
Northwood	43	Washington	7
Nottingham	54	Unknown	1
Plaistow	96	County Total	463
Portsmouth	213		
Raymond	131	New Hampshire Total ²¹	14,433
Rye	47		
Salem	328		
Sandown	74		
Seabrook	100		
South Hampton	7		
Stratham	95		
Windham	115		
County Total	3455		

11. Resident Births by Plurality²² of Birth ■ New Hampshire, 1998

Plurality of Birth	Births	Pregnancies
Single deliveries	13,954	13,954
Twin deliveries	452	226
Triplet deliveries	15	5
Quadruplet deliveries	12	3
Total	14,433	14,188

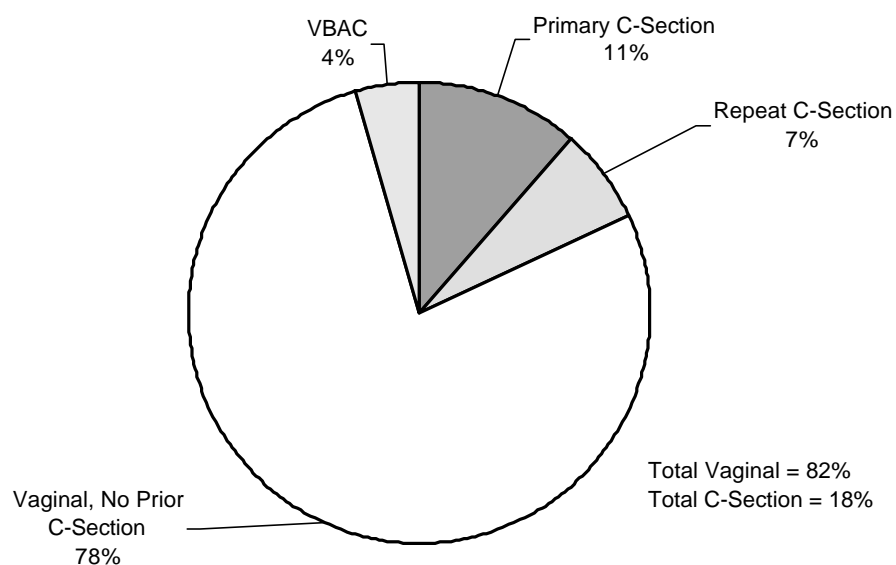
12. Resident Births by Race of Mother ■ New Hampshire, 1998

Race of Mother	Births
White	13,974
Asian / Pacific Islander	172
Black	128
American Indian / Eskimo	40
Other / Unknown	119
Total	14,433

13. Resident Births by Hispanic Origin of Mother ■ New Hampshire, 1998

Hispanic Origin of Mother	Births
Non-Hispanic	13,652
Hispanic	254
Unknown	527
Total	14,433

14. Method of Delivery for Birth Occurrences in New Hampshire, 1998



15. Birth Occurrences by Hospital²³ and Method of Delivery²⁴ ■ New Hampshire, 1998

Hospital	Total Vaginal	Vaginal Rate	Total C-Section	Cesarean Rate	Primary C-Section	Primary Rate	Repeat C-Section	VBAC	VBAC Rate	Total Births
Alice Peck Day Memorial Hospital	194	87.4	28	12.6	18	8.9	10	10	-	222
Androscoggin Valley Hospital	81	74.3	28	25.7	18	-	10	12	-	109
Cheshire Medical Center	402	86.1	65	13.9	42	10.1	23	29	-	467
Concord Hospital	1,091	79.7	278	20.3	179	14.4	99	26	20.8	1,369
Cottage Hospital	64	-	12	-	9	-	3	6	-	76
Elliot Hospital	2,046	80.3	501	19.7	294	13.1	207	101	32.8	2,548
Exeter Hospital	693	84.5	127	15.5	85	11.4	42	31	-	821
Franklin Regional Hospital	100	84.0	19	16.0	11	10.2	8	3	-	119
Frisbie Memorial Hospital	426	81.1	99	18.9	55	12.1	44	25	-	525
Huggins Hospital	107	83.6	21	16.4	16	13.7	5	6	-	128
Lakes Region General Hospital	461	84.7	83	15.3	53	10.6	30	15	-	544
Littleton Regional Hospital	234	90.3	25	9.7	13	5.7	12	19	-	259
Mary Hitchcock Memorial Hospital	747	76.5	229	23.5	170	19.5	59	47	44.3	976
Memorial Hospital	182	87.9	25	12.1	19	9.9	6	10	-	207
Monadnock Community Hospital	332	85.1	58	14.9	39	11.2	19	22	-	390
New London Hospital	101	75.9	32	24.1	25	20.3	7	3	-	133
Parkland Medical Center	498	78.7	135	21.3	99	17.7	36	38	-	633
Portsmouth Hospital	782	81.3	180	18.7	108	12.6	72	30	29.4	962
Southern NH Regional Medical Center	1,219	82.8	253	17.2	151	11.8	102	88	46.3	1,472
Speare Memorial Hospital	99	79.2	26	20.8	14	13.6	12	10	-	125
St Joseph's Hospital	666	82.4	142	17.6	83	11.6	59	32	-	808
Upper Connecticut Valley Hospital	38	-	6	-	5	-	1	1	-	44
Valley Regional Hospital	221	89.8	25	10.2	17	7.6	8	14	-	246
Weeks Memorial Hospital	64	-	15	-	9	-	6	5	-	79
Wentworth-Douglas Hospital	494	84.7	89	15.3	47	9.1	42	27	-	583
At home (planned)	85	-	0	-	0	-	0	1	-	85
At home (unplanned)	16	-	0	-	0	-	0	2	-	16
En route to hospital	5	-	0	-	0	-	0	0	-	5
Street address other than home	1	-	0	-	0	-	0	0	-	1
Total	11,449	82.1	2,501	17.9	1,579	12.7	922	613	39.9	13,952

Vaginal rate: Percentage of all births delivered vaginally.

Cesarean rate: Percentage of all births delivered by c-section.

Primary c-sections: Number of births to women having their first c-section delivery.

Primary c-section rate: Percentage of c-section births to women who have not had prior c-section deliveries.

Repeat c-sections: Number of births to women having a c-section delivery who have had a previous c-section delivery.

VBAC (vaginal births after cesarean section): Vaginal births to women who have had a previous c-section delivery.

VBAC rate: Percentage of vaginal births to women who have had a previous c-section delivery.

Note: Total includes two births where the method of delivery is unknown (one at Elliot Hospital and one at Exeter Hospital). These are not included in the rate calculations.

"-" indicates that a percentage could not be calculated as percentages based on <100 events do not meet the standard of reliability.

Birth

16. Selected Birth Characteristics by Mother's County of Residence ■ New Hampshire, 1998

Characteristic	County										Statewide
	Belknap	Carroll	Cheshire	Coos	Grafton	Hillsborough	Merrimack	Rockingham	Strafford	Sullivan	Total
Births	566	388	740	291	842	4,856	1,523	3,457	1,307	462	14,433
County's percentage of state total	3.9	2.7	5.1	2.0	5.8	33.6	10.6	24.0	9.1	3.2	100.0
Female	261	191	399	133	376	2,370	725	1,679	651	216	7,001
Percentage of county total ²⁵	46.1	49.2	53.9	45.7	44.7	48.8	47.6	48.6	49.8	46.8	48.5
Low birth weight	26	15	33	16	56	263	105	202	74	32	822
Percentage of county total ²⁶	4.6	3.9	4.7	5.5	6.7	5.4	6.9	5.9	5.7	7.1	5.7
Very low birth weight	6	7	5	4	12	45	20	44	15	4	162
Percentage of county total ²⁷	1.1	1.8	0.7	1.4	1.4	0.9	1.3	1.3	1.1	0.9	1.1
Low gestational age	25	18	48	18	70	318	130	268	94	36	1,025
Percentage of county total ²⁸	4.4	4.6	6.5	6.2	8.3	6.5	8.5	7.8	7.2	7.8	7.1
Mother initiated early prenatal care	497	351	657	250	739	4,185	1,326	3,089	1,160	396	12,652
Percentage of county total ²⁹	88.6	93.6	90.2	86.8	90.1	87.2	89.4	91.4	92.1	86.7	89.4
Mother initiated late/no prenatal care	9	2	8	3	11	119	19	50	18	12	251
Percentage of county total ³⁰	1.6	0.5	1.1	1.0	1.3	2.5	1.3	1.5	1.4	2.6	1.8
Mother unmarried	175	101	341	121	224	1,111	398	617	367	169	3,491
Percentage of county total ³¹	30.9	26.0	28.1	41.7	26.7	22.9	26.1	17.9	28.1	36.6	24.2
Mother received Medicaid	149	112	151	117	212	744	300	362	329	149	2,625
Percentage of county total ³²	26.5	30.0	23.4	41.1	25.7	17.0	20.1	14.8	27.5	34.0	20.8
Mother smoked tobacco	115	73	158	75	149	762	253	498	271	119	2,473
Percentage of county total ³³	20.3	18.9	21.5	25.9	17.8	15.7	16.6	14.4	20.8	25.9	17.2
Mother consumed alcohol	15	8	7	4	14	42	24	52	17	8	191
Percentage of county total ³⁴	2.7	2.1	1.0	1.4	1.7	0.9	1.6	1.5	1.3	1.7	1.3
Mother's education <12 years	73	38	103	44	94	533	168	209	157	70	1,489
Percentage of county total	12.9	9.8	14.0	15.2	11.3	11.0	11.1	6.1	12.2	15.4	10.4
Mother's age <20	56	33	75	35	78	351	125	175	120	54	1,102
Percentage of county total	9.9	8.5	10.1	12.0	9.3	7.2	8.2	5.1	9.2	11.7	7.6
Mother's age <18	19	11	27	7	24	114	35	60	30	14	341
Percentage of county total	3.4	2.8	3.6	2.4	2.9	2.3	2.3	1.7	2.3	3.0	2.4

Note: Percentages are based on the number of births where the value for the particular characteristic was known, not on all births.

17. Selected Birth Characteristics by County ■ New Hampshire, 1998

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18. Selected Birth Characteristics by Mother's Age Group ■ New Hampshire, 1998

Characteristic	10-17	18-19	20-24	25-29	30-34	35-39	40+	Total
Births	341	761	2,632	4,178	4,163	2,024	334	14,433
Percent of total births	2.4	5.3	18.2	28.9	28.8	14.0	2.3	100.0
Female	143	363	1,245	2,033	2,067	996	154	7,001
Percent of births in age group	41.9	47.7	47.3	48.7	49.7	49.2	46.2	48.5
Low birth weight	25	48	154	214	216	145	20	822
Percent of births in age group	7.4	6.3	5.9	5.1	5.2	7.2	6.0	5.7
Very low birth weight	5	12	29	41	46	28	1	162
Percent of births in age group	1.5	1.6	1.1	1.0	1.1	1.4	0.3	1.1
Low gestational age	34	60	187	276	296	150	22	1,025
Percent of births in age group	10.0	7.9	7.1	6.6	7.1	7.4	6.6	7.1
Mother initiated early prenatal care	214	567	2,114	3,765	3,847	1,853	292	12,652
Percent of births in age group	65.2	76.8	82.1	91.6	94.2	93.0	90.1	89.4
Mother initiated late/no prenatal care	20	30	77	53	36	30	5	251
Percent of births in age group	6.1	4.1	3.0	1.3	0.9	1.5	1.5	1.8
Mother unmarried	329	641	1,318	642	360	170	31	3,491
Percent of births in age group	96.5	84.3	50.1	15.4	8.7	8.4	9.3	24.2
Mother received Medicaid	147	392	1,093	565	272	134	22	2,625
Percent of births in age group	47.3	55.8	45.4	15.4	7.7	7.8	7.7	20.8
Mother smoked tobacco	124	274	732	646	454	206	37	2,473
Percent of births in age group	36.5	36.0	27.9	15.5	10.9	10.2	11.2	17.2
Mother consumed alcohol	7	8	32	41	55	42	6	191
Percent of births in age group	2.1	1.1	1.2	1.0	1.3	2.1	1.8	1.3
Mother's education <12 years	307	365	430	244	101	37	5	1,489
Percent of births in age group	91.1	48.3	16.4	5.9	2.4	1.8	1.5	10.4

Note: Percentages are based on the number of births where the value for the particular characteristic was known, not on all births.

19. Selected Birth Characteristics by Mother's County of Residence and Age Group ■
 New Hampshire: Belknap County, 1998

Characteristic	10-17	18-19	20-24	25-29	30-34	35-39	40+	Total
Births	19	37	135	168	132	68	7	566
Percent of total births	3.4	6.5	23.9	29.7	23.3	12.0	1.2	100.0
Female	6	15	66	78	65	28	3	261
Percent of births in age group	-	-	48.9	46.4	49.2	-	-	46.1
Low birth weight	1	0	11	5	4	5	0	26
Percent of births in age group	-	-	8.1	3.0	3.1	-	-	4.6
Very low birth weight	0	0	3	0	2	1	0	6
Percent of births in age group	-	-	2.2	0.0	1.5	-	-	1.1
Low gestational age	1	1	11	4	4	4	0	25
Percent of births in age group	-	-	8.1	2.4	3.1	-	-	4.4
Mother initiated early prenatal care	12	27	116	152	125	60	5	497
Percent of births in age group	-	-	86.6	90.5	95.4	-	-	88.6
Mother initiated late/no prenatal care	0	0	4	1	1	2	1	9
Percent of births in age group	-	-	3.0	0.6	0.8	-	-	1.6
Mother unmarried	18	36	64	31	17	8	1	175
Percent of births in age group	-	-	47.4	18.5	12.9	-	-	30.9
Mother received Medicaid	7	25	58	37	13	7	2	149
Percent of births in age group	-	-	43.0	22.2	9.9	-	-	26.5
Mother smoked tobacco	10	14	36	24	21	9	1	115
Percent of births in age group	-	-	26.7	14.3	15.9	-	-	20.3
Mother consumed alcohol	2	1	3	2	5	2	0	15
Percent of births in age group	-	-	2.2	1.2	3.8	-	-	2.7
Mother's education <12 years	17	16	27	8	3	2	0	73
Percent of births in age group	-	-	20.0	4.8	2.3	-	-	12.9

Note: Percentages are based on the number of births where the value for the particular characteristic was known, not on all births.

"-" indicates that a percentage could not be calculated as percentages based on <100 events do not meet the standard of reliability.

Birth

20. Selected Birth Characteristics by Mother's County of Residence and Age Group ■ New Hampshire: Carroll County, 1998

Characteristic	10-17	18-19	20-24	25-29	30-34	35-39	40+	Total
Births	11	22	68	110	106	60	11	388
Percent of total births	2.8	5.7	17.5	28.4	27.3	15.5	2.8	100.0
Female	2	11	33	55	55	33	2	191
Percent of births in age group	-	-	-	50.0	51.9	-	-	49.2
Low birth weight	1	1	1	2	4	5	1	15
Percent of births in age group	-	-	-	1.8	3.8	-	-	3.9
Very low birth weight	0	1	0	1	2	3	0	7
Percent of births in age group	-	-	-	0.9	1.9	-	-	1.8
Low gestational age	1	1	3	3	3	7	0	18
Percent of births in age group	-	-	-	2.7	2.8	-	-	4.6
Mother initiated early prenatal care	6	21	60	102	99	54	9	351
Percent of births in age group	-	-	-	94.4	-	-	-	93.6
Mother initiated late/no prenatal care	1	0	0	0	0	0	1	2
Percent of births in age group	-	-	-	0.0	0.0	-	-	0.5
Mother unmarried	10	15	28	28	9	11	0	101
Percent of births in age group	-	-	-	25.5	8.5	-	-	26.0
Mother received Medicaid	5	16	38	27	13	12	1	112
Percent of births in age group	-	-	-	25.7	12.6	-	-	30.0
Mother smoked tobacco	2	7	22	17	13	9	3	73
Percent of births in age group	-	-	-	15.5	12.3	-	-	18.9
Mother consumed alcohol	0	0	3	4	1	0	0	8
Percent of births in age group	-	-	-	3.6	0.9	-	-	2.1
Mother's education <12 years	10	8	10	7	3	0	0	38
Percent of births in age group	-	-	-	6.4	2.8	-	-	9.8

Note: Percentages are based on the number of births where the value for the particular characteristic was known, not on all births.

"-" indicates that a percentage could not be calculated as percentages based on <100 events do not meet the standard of reliability.

21. Selected Birth Characteristics by Mother's County of Residence and Age Group ■
 New Hampshire: Cheshire County, 1998

Characteristic	10-17	18-19	20-24	25-29	30-34	35-39	40+	Total
Births	27	48	179	215	168	86	17	740
Percent of total births	3.6	6.5	24.2	29.1	22.7	11.6	2.3	100.0
Female	13	32	99	111	89	48	7	399
Percent of births in age group	-	-	55.3	51.6	53.0	-	-	53.9
Low birth weight	1	3	8	6	11	3	1	33
Percent of births in age group	-	-	4.7	3.0	6.8	-	-	4.7
Very low birth weight	0	2	2	0	1	0	0	5
Percent of births in age group	-	-	1.2	0.0	0.6	-	-	0.7
Low gestational age	2	4	11	9	17	4	1	48
Percent of births in age group	-	-	6.1	4.2	10.1	-	-	6.5
Mother initiated early prenatal care	14	38	156	204	158	74	13	657
Percent of births in age group	-	-	88.1	95.8	95.2	-	-	90.2
Mother initiated late/no prenatal care	1	2	3	1	0	1	0	8
Percent of births in age group	-	-	1.7	0.5	0.0	-	-	1.1
Mother unmarried	25	36	81	37	19	9	1	208
Percent of births in age group	-	-	45.3	17.2	11.3	-	-	28.1
Mother received Medicaid	16	14	58	32	20	10	1	151
Percent of births in age group	-	-	38.4	16.9	13.9	-	-	23.4
Mother smoked tobacco	11	12	56	36	28	14	1	158
Percent of births in age group	-	-	31.6	16.7	16.7	-	-	21.5
Mother consumed alcohol	0	0	2	1	1	3	0	7
Percent of births in age group	-	-	1.1	0.5	0.6	-	-	1.0
Mother's education <12 years	26	24	30	12	6	5	0	103
Percent of births in age group	-	-	16.8	5.6	3.6	-	-	14.0

Note: Percentages are based on the number of births where the value for the particular characteristic was known, not on all births.

"-" indicates that a percentage could not be calculated as percentages based on <100 events do not meet the standard of reliability.

22. Selected Birth Characteristics by Mother's County of Residence and Age Group ■

New Hampshire: Coos County, 1998

Characteristic	10-17	18-19	20-24	25-29	30-34	35-39	40+	Total
Births	7	28	104	86	49	15	2	291
Percent of total births	2.4	9.6	35.7	29.6	16.8	5.2	0.7	100.0
Female	3	10	44	42	25	8	1	133
Percent of births in age group	-	-	42.3	-	-	-	-	45.7
Low birth weight	0	2	8	3	3	0	0	16
Percent of births in age group	-	-	7.7	-	-	-	-	5.5
Very low birth weight	0	1	1	1	1	0	0	4
Percent of births in age group	-	-	1.0	-	-	-	-	1.4
Low gestational age	1	1	9	4	3	0	0	18
Percent of births in age group	-	-	8.7	-	-	-	-	6.2
Mother initiated early prenatal care	4	19	85	80	45	15	2	250
Percent of births in age group	-	-	82.5	-	-	-	-	86.8
Mother initiated late/no prenatal care	0	0	2	1	0	0	0	3
Percent of births in age group	-	-	1.9	-	-	-	-	1.0
Mother unmarried	6	27	59	21	5	1	2	121
Percent of births in age group	-	-	57.7	-	-	-	-	54.3
Mother received Medicaid	3	18	62	21	9	2	2	117
Percent of births in age group	-	-	60.8	-	-	-	-	41.1
Mother smoked tobacco	5	13	33	16	6	1	1	75
Percent of births in age group	-	-	31.7	-	-	-	-	25.9
Mother consumed alcohol	0	0	0	3	0	1	0	4
Percent of births in age group	-	-	0.0	-	-	-	-	1.4
Mother's education <12 years	7	13	17	7	0	0	0	44
Percent of births in age group	-	-	16.3	-	-	-	-	15.2

Note: Percentages are based on the number of births where the value for the particular characteristic was known, not on all births.

"-" indicates that a percentage could not be calculated as percentages based on <100 events do not meet the standard of reliability.

23. Selected Birth Characteristics by Mother's County of Residence and Age Group ■
New Hampshire: Grafton County, 1998

Characteristic	10-17	18-19	20-24	25-29	30-34	35-39	40+	Total
Births	24	54	177	250	214	103	20	842
Percent of total births	2.9	6.4	21.0	29.7	25.4	12.2	2.4	100.0
Female	13	21	83	102	102	44	11	376
Percent of births in age group	-	-	46.9	40.8	47.7	42.7	-	44.7
Low birth weight	2	2	8	23	12	9	0	56
Percent of births in age group	-	-	4.5	9.2	5.7	8.8	-	6.7
Very low birth weight	1	0	1	4	5	1	0	12
Percent of births in age group	-	-	0.6	1.6	2.4	1.0	-	1.4
Low gestational age	2	4	11	23	18	12	0	70
Percent of births in age group	-	-	6.2	9.2	8.5	-	-	8.3
Mother initiated early prenatal care	9	41	157	222	196	95	19	739
Percent of births in age group	-	-	92.9	90.2	93.8	93.1	-	90.1
Mother initiated late/no prenatal care	2	3	1	1	2	2	0	11
Percent of births in age group	-	-	0.6	0.4	1.0	2.0	-	1.3
Mother unmarried	23	44	82	37	24	10	4	224
Percent of births in age group	-	-	46.3	14.9	11.3	9.7	-	26.7
Mother received Medicaid	14	37	92	42	14	11	2	212
Percent of births in age group	-	-	52.9	17.4	6.7	10.8	-	25.7
Mother smoked tobacco	9	18	50	38	21	11	2	149
Percent of births in age group	-	-	28.2	15.3	10.0	10.7	-	17.8
Mother consumed alcohol	1	1	3	2	6	1	0	14
Percent of births in age group	-	-	1.7	0.8	2.9	1.0	-	1.7
Mother's education <12 years	17	25	27	21	3	1	0	94
Percent of births in age group	-	-	15.5	8.4	1.4	1.0	-	11.3

Note: Percentages are based on the number of births where the value for the particular characteristic was known, not on all births.

"-" indicates that a percentage could not be calculated as percentages based on <100 events do not meet the standard of reliability.

24. Selected Birth Characteristics by Mother's County of Residence and Age Group ■
 New Hampshire: Hillsborough County, 1998

Characteristic	10-17	18-19	20-24	25-29	30-34	35-39	40+	Total
Births	114	237	840	1,428	1,437	688	112	4,856
Percent of total births	2.3	4.9	17.3	29.4	29.6	14.2	2.3	100.0
Female	46	123	392	697	708	351	53	2,370
Percent of births in age group	40.4	51.9	46.7	48.8	49.3	51.0	47.7	48.8
Low birth weight	9	15	45	60	76	50	8	263
Percent of births in age group	7.9	6.4	5.4	4.2	5.3	7.3	7.2	5.4
Very low birth weight	2	2	9	12	12	8	0	45
Percent of births in age group	1.8	0.8	1.1	0.8	0.8	1.2	0.0	0.9
Low gestational age	7	17	56	85	100	46	6	317
Percent of births in age group	6.1	7.2	6.7	6.0	7.0	6.7	5.5	6.5
Mother initiated early prenatal care	72	167	634	1,265	1,317	630	100	4,185
Percent of births in age group	64.3	72.0	76.5	89.5	92.6	92.0	93.5	87.2
Mother initiated late/no prenatal care	8	11	35	29	21	13	2	119
Percent of births in age group	7.1	4.7	4.2	2.1	1.5	1.9	1.9	2.5
Mother unmarried	110	191	419	223	112	48	8	1,111
Percent of births in age group	96.5	80.9	49.9	15.6	7.8	7.0	7.1	22.9
Mother received Medicaid	49	105	316	153	79	36	6	744
Percent of births in age group	46.7	47.9	40.6	11.9	6.2	5.9	-	17.0
Mother smoked tobacco	32	80	223	219	141	59	8	762
Percent of births in age group	28.1	33.8	26.6	15.4	9.8	8.6	7.1	15.7
Mother consumed alcohol	1	2	4	11	8	14	2	42
Percent of births in age group	0.9	0.9	0.5	0.8	0.6	2.0	1.8	0.9
Mother's education <12 years	103	111	156	99	48	14	2	533
Percent of births in age group	90.4	47.2	18.6	7.0	3.4	2.1	1.8	11.0

Note: Percentages are based on the number of births where the value for the particular characteristic was known, not on all births.

“-“ indicates that a percentage could not be calculated as percentages based on <100 events do not meet the standard of reliability.

25. Selected Birth Characteristics by Mother's County of Residence and Age Group ■
New Hampshire: Merrimack County, 1998

Characteristic	10-17	18-19	20-24	25-29	30-34	35-39	40+	Total
Births	35	90	308	433	408	218	31	1,523
Percent of total births	2.3	5.9	20.2	28.4	26.8	14.3	2.0	100.0
Female	17	38	133	203	209	109	16	725
Percent of births in age group	-	-	43.2	46.9	51.2	50.0	-	47.6
Low birth weight	4	7	20	32	21	17	4	105
Percent of births in age group	-	-	6.5	7.4	5.1	7.8	-	6.9
Very low birth weight	0	2	4	9	2	3	0	20
Percent of births in age group	-	-	1.3	2.1	0.5	1.4	-	1.3
Low gestational age	8	8	21	43	25	17	8	130
Percent of births in age group	-	-	6.8	9.9	6.1	7.8	-	8.5
Mother initiated early prenatal care	20	70	243	384	373	207	29	1,326
Percent of births in age group	-	-	81.3	91.6	93.7	95.8	-	89.4
Mother initiated late/no prenatal care	2	1	7	3	5	1	0	19
Percent of births in age group	-	-	2.3	0.7	1.3	0.5	-	1.3
Mother unmarried	34	78	168	63	33	19	3	398
Percent of births in age group	-	-	54.5	14.5	8.1	8.7	-	26.1
Mother received Medicaid	9	44	141	60	32	13	1	300
Percent of births in age group	-	-	46.4	14.3	7.9	6.1	-	20.1
Mother smoked tobacco	14	28	85	56	46	22	2	253
Percent of births in age group	-	-	27.7	12.9	11.3	10.1	-	16.6
Mother consumed alcohol	2	2	6	3	7	4	0	24
Percent of births in age group	-	-	1.9	0.7	1.7	1.8	-	1.6
Mother's education <12 years	32	45	48	28	11	3	1	168
Percent of births in age group	-	-	15.6	6.5	2.7	1.4	-	11.1

Note: Percentages are based on the number of births where the value for the particular characteristic was known, not on all births.

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26. Selected Birth Characteristics by Mother's County of Residence and Age Group ■
 New Hampshire: Rockingham County, 1998

Characteristic	10-17	18-19	20-24	25-29	30-34	35-39	40+	Total
Births	60	115	405	966	1,230	575	106	3,457
Percent of total births	1.7	3.3	11.7	27.9	35.6	16.6	3.1	100.0
Female	23	57	190	485	606	272	46	1,679
Percent of births in age group	-	49.6	47.0	50.2	49.3	47.3	43.4	48.6
Low birth weight	3	11	26	51	68	40	3	202
Percent of births in age group	-	9.6	6.4	5.3	5.5	7.0	2.8	5.9
Very low birth weight	0	4	3	11	17	9	0	44
Percent of births in age group	-	3.5	0.7	1.1	1.4	1.6	0.0	1.3
Low gestational age	6	14	35	64	101	45	3	268
Percent of births in age group	-	12.2	8.7	6.6	8.2	7.9	2.8	7.8
Mother initiated early prenatal care	39	81	327	878	1,147	525	92	3,089
Percent of births in age group	-	75.7	83.2	92.6	95.2	93.1	88.5	91.4
Mother initiated late/no prenatal care	4	7	11	13	6	8	1	50
Percent of births in age group	-	6.5	2.8	1.4	0.5	1.4	1.0	1.5
Mother unmarried	60	102	207	104	96	39	9	617
Percent of births in age group	-	88.7	51.1	10.8	7.8	6.8	8.5	17.9
Mother received Medicaid	20	46	133	89	45	25	4	362
Percent of births in age group	-	-	42.2	13.0	5.4	6.5	-	14.8
Mother smoked tobacco	22	46	96	146	121	56	11	498
Percent of births in age group	-	40.0	23.7	15.1	9.8	9.8	10.5	14.4
Mother consumed alcohol	1	2	2	11	18	14	4	52
Percent of births in age group	-	1.7	0.5	1.1	1.5	2.5	3.8	1.5
Mother's education <12 years	58	51	46	28	18	7	1	209
Percent of births in age group	-	44.7	11.4	2.9	1.5	1.2	1.0	6.1

Note: Percentages are based on the number of births where the value for the particular characteristic was known, not on all births.

"-" indicates that a percentage could not be calculated as percentages based on <100 events do not meet the standard of reliability.

27. Selected Birth Characteristics by Mother's County of Residence and Age Group ■
 New Hampshire: Strafford County, 1998

Characteristic	10-17	18-19	20-24	25-29	30-34	35-39	40+	Total
Births	30	90	287	402	318	155	25	1,307
Percent of total births	2.3	6.9	22.0	30.8	24.3	11.9	1.9	100.0
Female	15	40	140	203	154	85	14	651
Percent of births in age group	-	-	48.8	50.5	48.4	54.8	-	49.8
Low birth weight	3	5	18	24	11	11	2	74
Percent of births in age group	-	-	6.3	6.0	3.5	7.1	-	5.7
Very low birth weight	1	0	5	2	3	3	1	15
Percent of births in age group	-	-	1.7	0.5	0.9	1.9	-	1.1
Low gestational age	5	6	23	29	18	9	4	94
Percent of births in age group	-	-	8.0	7.2	5.7	5.8	-	7.2
Mother initiated early prenatal care	26	74	233	369	297	141	20	1,160
Percent of births in age group	-	-	84.4	94.4	97.1	96.6	-	92.1
Mother initiated late/no prenatal care	0	2	11	2	1	2	0	18
Percent of births in age group	-	-	4.0	0.5	0.3	1.4	-	1.4
Mother unmarried	29	76	145	69	31	15	2	367
Percent of births in age group	-	-	50.5	17.2	9.7	9.7	-	28.1
Mother received Medicaid	17	58	138	74	30	10	2	329
Percent of births in age group	-	-	52.1	20.1	10.4	6.9	-	27.5
Mother smoked tobacco	13	40	87	70	40	14	7	271
Percent of births in age group	-	-	30.5	17.4	12.6	9.2	-	20.8
Mother consumed alcohol	0	0	7	2	6	2	0	17
Percent of births in age group	-	-	2.5	0.5	1.9	1.3	-	1.3
Mother's education <12 years	24	50	49	24	7	3	0	157
Percent of births in age group	-	-	17.5	6.0	2.2	2.0	-	12.2

Note: Percentages are based on the number of births where the value for the particular characteristic was known, not on all births.

"-" indicates that a percentage could not be calculated as percentages based on <100 events do not meet the standard of reliability.

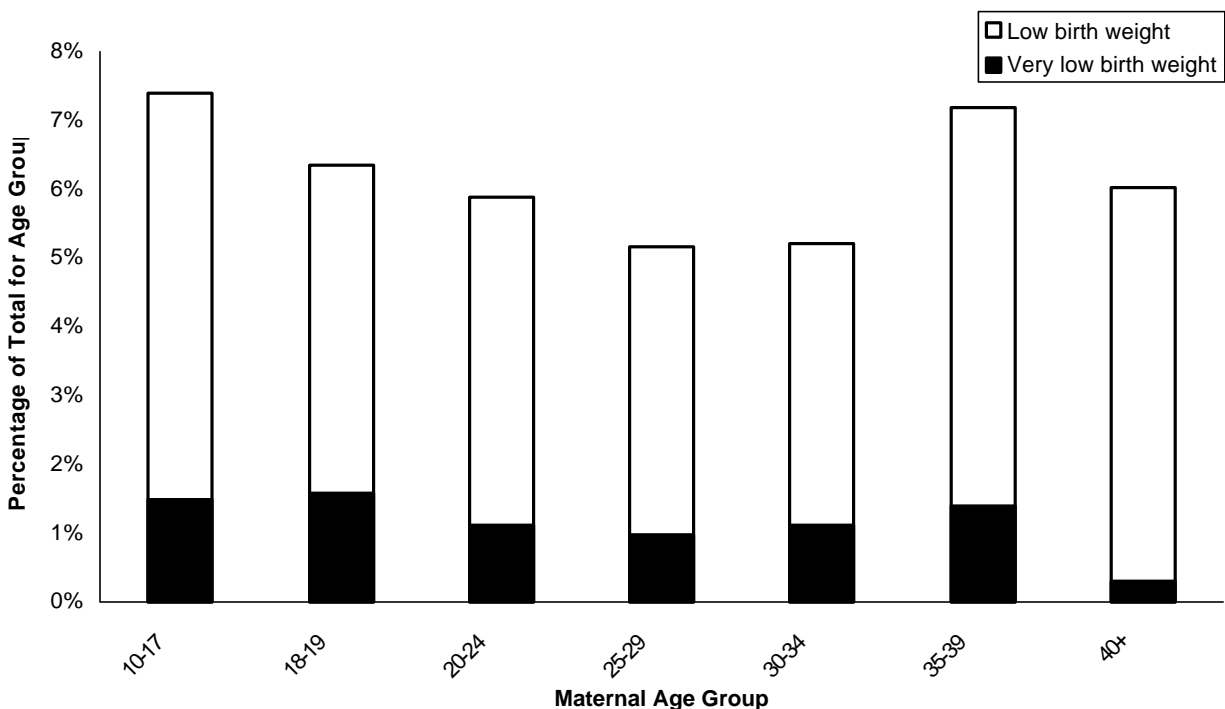
28. Selected Birth Characteristics by Mother's County of Residence and Age Group ■
 New Hampshire: Sullivan County, 1998

Characteristic	10-17	18-19	20-24	25-29	30-34	35-39	40+	Total
Births	14	40	129	120	101	55	3	462
Percent of total births	3.0	8.7	27.9	26.0	21.9	11.9	0.6	100.0
Female	5	16	65	57	54	18	1	216
Percent of births in age group	-	-	50.4	47.5	53.5	-	-	46.8
Low birth weight	1	2	9	8	6	5	1	32
Percent of births in age group	-	-	7.2	6.9	-	-	-	7.1
Very low birth weight	1	0	1	1	1	0	0	4
Percent of births in age group	-	-	0.8	0.9	-	-	-	0.9
Low gestational age	1	4	6	12	7	6	0	36
Percent of births in age group	-	-	4.7	10.0	-	-	-	7.8
Mother initiated early prenatal care	12	29	103	109	90	50	3	396
Percent of births in age group	-	-	79.8	90.8	-	-	-	86.7
Mother initiated late/no prenatal care	2	4	3	2	0	1	0	12
Percent of births in age group	-	-	2.3	1.7	-	-	-	2.6
Mother unmarried	14	36	65	29	14	10	1	169
Percent of births in age group	-	-	50.4	24.2	13.9	-	-	36.6
Mother received Medicaid	7	29	57	30	17	8	1	149
Percent of births in age group	-	-	47.9	26.1	-	-	-	34.0
Mother smoked tobacco	6	16	44	24	17	11	1	119
Percent of births in age group	-	-	34.1	20.2	16.8	-	-	25.9
Mother consumed alcohol	0	0	2	2	3	1	0	8
Percent of births in age group	-	-	1.6	1.7	3.0	-	-	1.7
Mother's education <12 years	13	22	20	10	2	2	1	70
Percent of births in age group	-	-	15.6	8.5	2.0	-	-	15.4

Note: Percentages are based on the number of births where the value for the particular characteristic was known, not on all births.

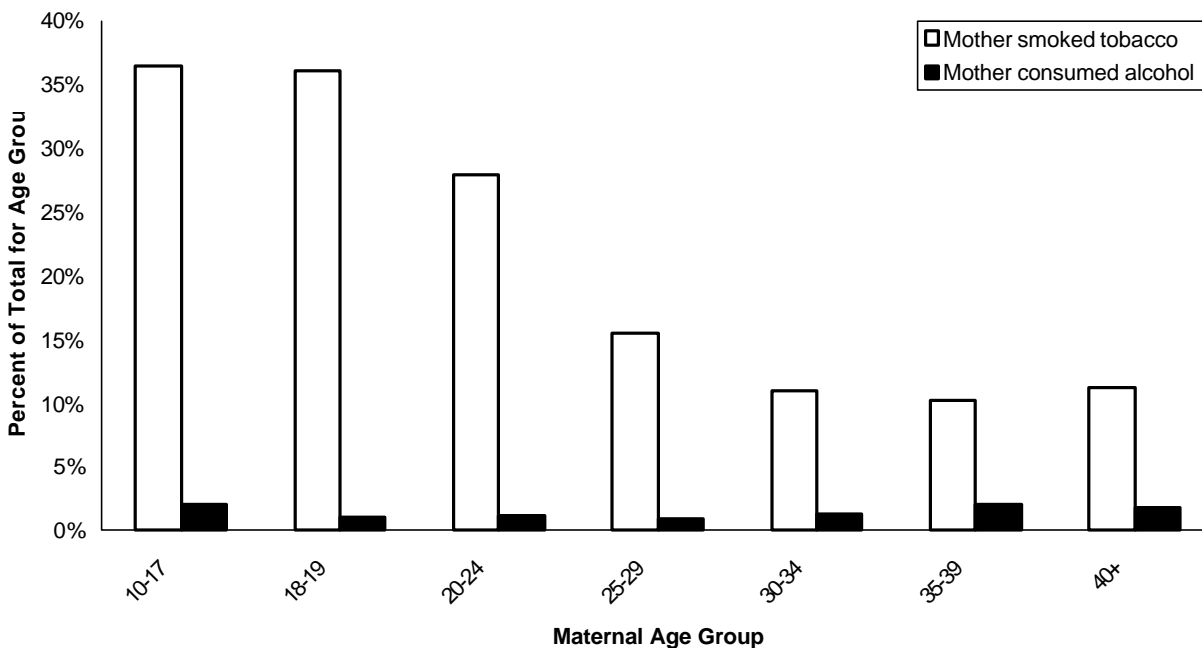
"-" indicates that a percentage could not be calculated as percentages based on <100 events do not meet the standard of reliability.

29. Comparison of Infant Risk Factors by Mother's Age Group: Low Birth Weight and Very Low Birth Weight ■ New Hampshire, 1998

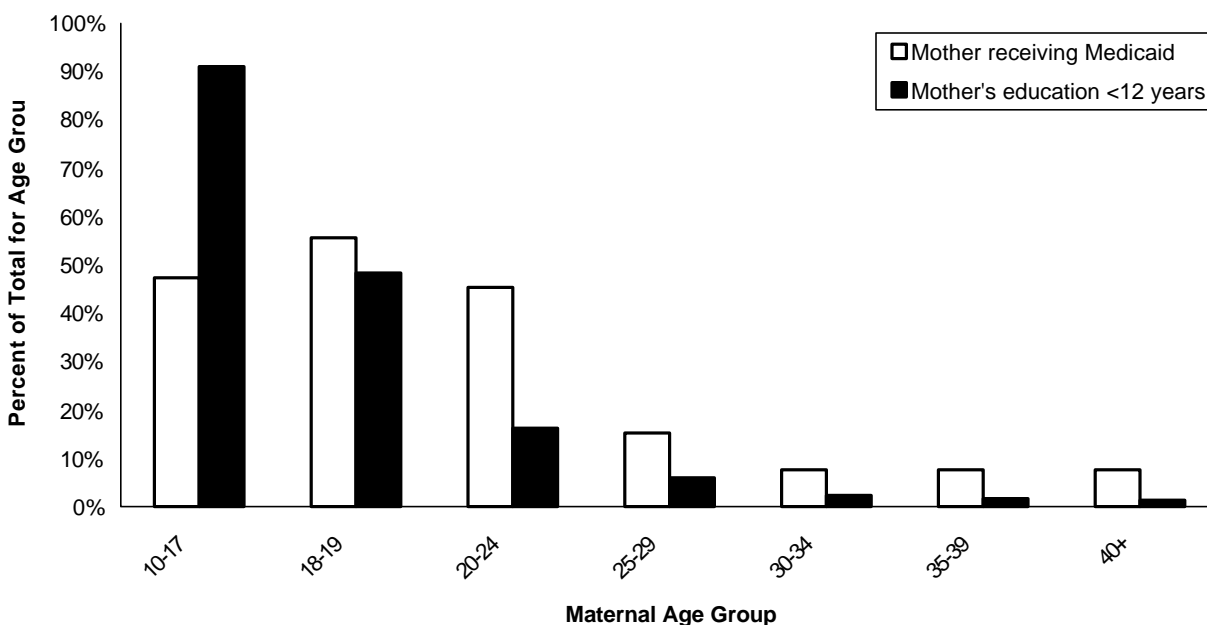


Note: The very low birth weight percentage is a component of the low birth weight percentage.

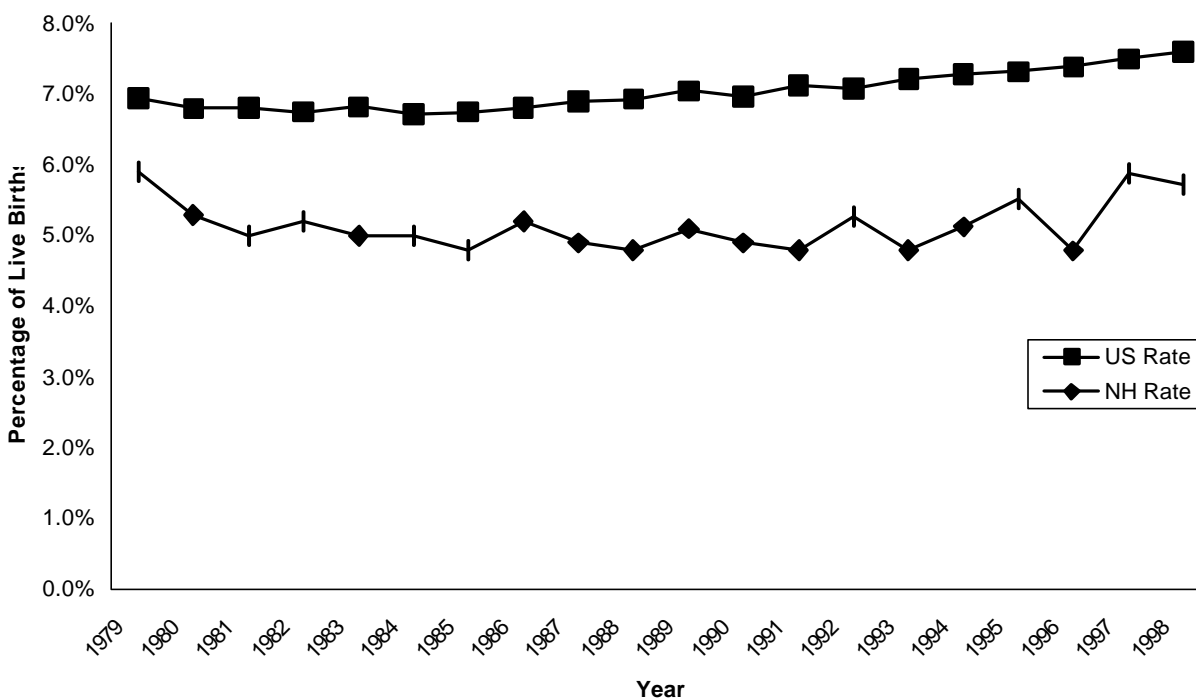
30. Comparison of Infant Risk Factors by Mother's Age Group: Mother Smoked Tobacco and Mother Consumed Alcohol ■ New Hampshire, 1998



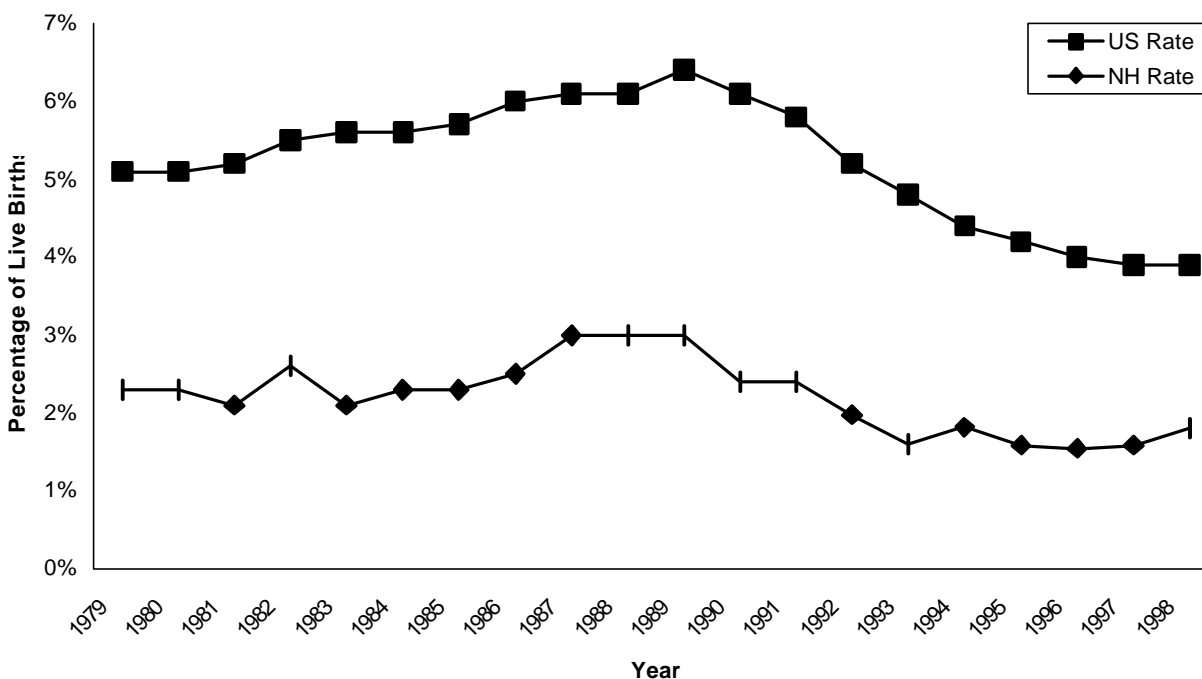
31. Comparison of Infant Risk Factors by Mother's Age Group: Mother's Education Level <12 and Mother Received Medicaid ■ New Hampshire, 1998



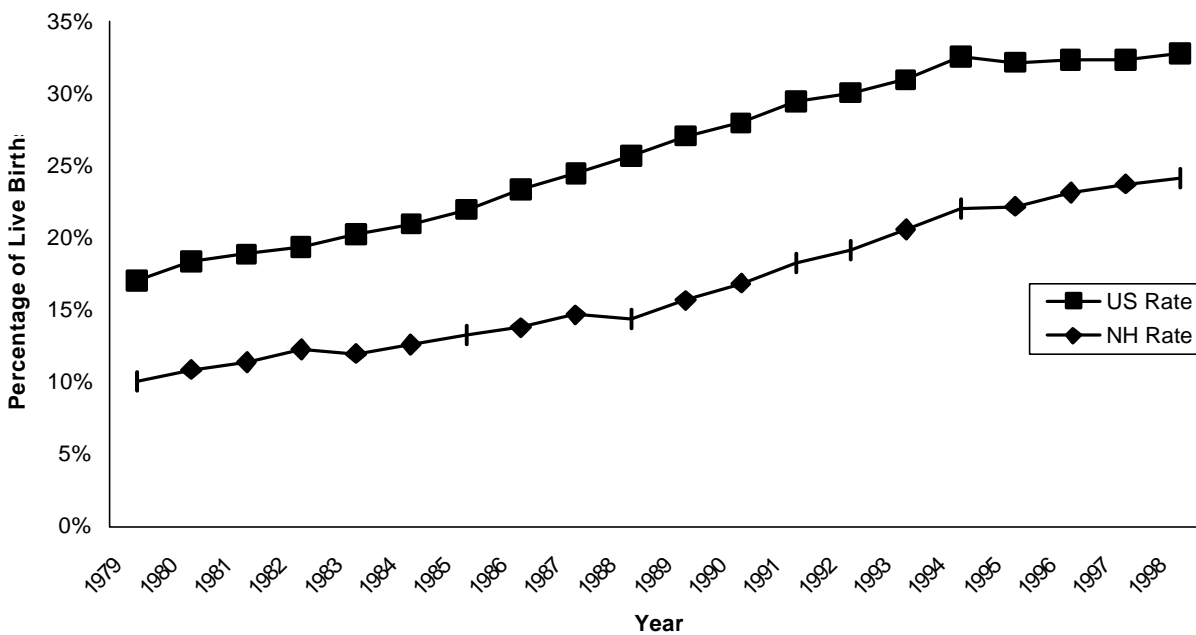
32. Birth Trends: Low Birth Weight Births ■ New Hampshire and United States, 1978-1998



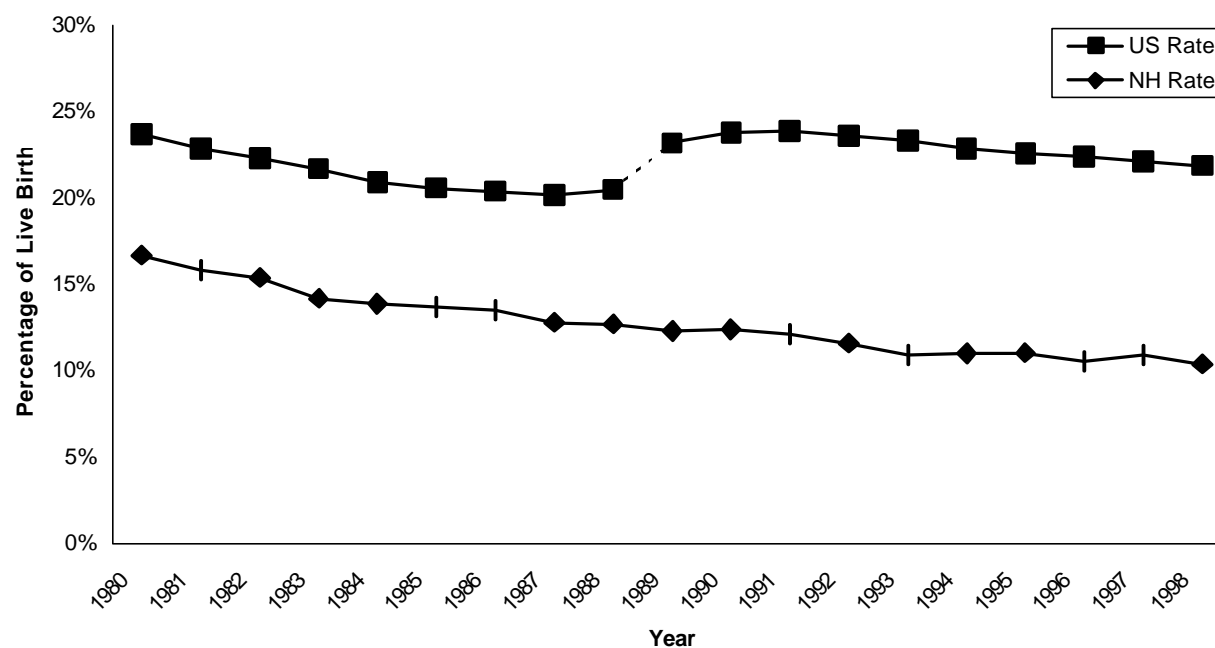
33. Birth Trends: Mother Initiated Late or No Prenatal Care ■ New Hampshire and United States, 1978-1998



34. Birth Trends: Mother Unmarried ■ New Hampshire and United States, 1978-1998



35. Birth Trends: Mother's Education Level <12 years ■ New Hampshire and United States, 1980-1998



Note: The large increase in the US rate from 1988 to 1989 is due to reporting issues. Prior to 1989, California and Texas did not report mother's education to the National Center for Health Statistics. Only since 1992 has all 50 states and the District of Columbia been reporting this data.

36. Resident Congenital Anomaly Occurrences³⁵ ■ New Hampshire, 1998

Congenital Anomaly	Occurrences
Anencephalus	2
Cleft lip-palate	9
Club foot	14
Diaphragmatic hernia	1
Down's syndrome	11
Heart Malformations	45
Malformed genitalia	11
Microcephalus	2
Omphalocele / Gastroschisis	6
Other central nervous system anomalies	3
Other chromosomal anomalies	13
Other circulatory / respiratory anomalies	31
Other congenital anomalies	91
Other gastrointestinal anomalies	4
Other musculoskeletal / integumental anomalies	46
Other urogenital anomalies	28
Polydactyly / Syndactyly / Adactyly	12
Rectal atresia stenosis	1
Renal agenesis	1
Spina bifida / Meningocele	2
Tracheo-esophageal fistula / Esophageal atresia	6
Unknown	66
Births with no congenital anomalies reported	14,062

Anencephalus: Absence of the cerebral hemispheres

Cleft lip / palate: Cleft lip is a fissure or elongated opening of the lip; cleft palate is a fissure in the roof of the mouth.

Clubfoot: Deformity of the foot, which is twisted out of shape or position.

Diaphragmatic hernia: Herniation of the abdominal contents through the diaphragm into the thoracic cavity usually resulting in respiratory distress.

Down's syndrome: chromosomal defect with most cases resulting from extra chromosome (trisomy 21).

Heart malformations: Congenital anomalies of the heart.

Malformed genitalia: Congenital anomalies of the reproductive organs.

Microcephalus: A significantly small head.

Omphalocele / Gastroschisis: an Omphalocele is a protrusion of variable amounts of abdominal viscera from a mid-line defect at the base of the umbilicus. In Gastroschisis, the abdominal viscera protrude through an abdominal wall defect, usually on the right side of the umbilical cord insertion.

Other central nervous system anomalies: specified anomalies of the brain, spinal cord, and nervous system.

Other chromosomal anomalies: all other chromosomal aberrations.

Other circulatory / respiratory anomalies: specified anomalies of the circulatory and respiratory systems.

Other congenital anomalies: all other congenital anomalies not otherwise specified.

Other gastrointestinal anomalies: specified congenital anomalies of the gastrointestinal system.

Other musculoskeletal / integumental anomalies: specified congenital anomalies of the muscles, skeleton, or skin.

Other urogenital anomalies: specified congenital anomalies of the organs concerned in the production and excretion of urine, together with organs of reproduction.

Polydactyly / Syndactyly / Adactyly: Polydactyly is the presence of more than five digits on hands and / or feet; Syndactyly is having fused or webbed fingers and / or toes; Adactyly is the absence of fingers and / or toes.

Rectal atresia / stenosis: Congenital absence, closure, or narrowing of the rectum.

Renal agenesis: One or both kidneys are completely absent.

Spina bifida / Meningocele: Developmental anomaly characterized by defective closure of the bony encasement of the spinal cord, through which the cord and meninges may or may not protrude.

Tracheo-esophageal fistula / Esophageal atresia: An abnormal passage between the trachea and the esophagus; esophageal atresia is the congenital absence or closure of the esophagus.

37. Resident Abnormal Condition of the Newborn Occurrences³⁶ ■ New Hampshire, 1998

Abnormal Condition	Occurrences
Anemia	3
Assisted ventilation (<30 minutes)	456
Assisted ventilation (>30 minutes)	123
Birth Injury	43
Fetal alcohol syndrome	2
Hyaline membrane disease / RDS	46
Meconium aspiration syndrome	28
Other	359
Seizures	15
Unknown	68
Births with no abnormalities reported	13,423

Anemia: Hemoglobin level of less than 13.0g/dL or a hematocrit of less than 39 percent.

Assisted ventilation (<30 minutes): a mechanical method of assisting respiration for newborns with respiratory failure.

Assisted ventilation (>30 minutes): newborn placed on assisted ventilation for 30 minutes or longer.

Birth injury: Impairment of the infant's body function or structure due to adverse influences that occurred at birth.

Fetal alcohol syndrome: A syndrome of altered prenatal growth and development occurring in infants born of women who consumed excessive amounts of alcohol during pregnancy.

Hyaline membrane disease / RDS: A disorder primarily of prematurity, manifested clinically by respiratory distress and pathologically by pulmonary hyaline membranes and incomplete expansion of the lungs at birth.

Meconium aspiration syndrome: Aspiration of meconium by the fetus or newborn, affecting the lower respiratory system.

Seizures: A seizure of any etiology.

38. Resident Complications of Labor and Delivery Occurrences³⁷ ■ New Hampshire, 1998

Complications of Labor or Delivery	Occurrences
Abruptio placenta	96
Anesthetic complications	8
Breech / Malpresentation	566
Cephalopelvic disproportion	340
Cord prolapse	22
Dysfunctional labor	488
Febrile	183
Fetal distress	388
Meconium, moderate / heavy	915
Other	1,968
Other excessive bleeding	122
Placenta previa	34
Precipitous labor	443
Premature rupture of membrane	675
Prolonged labor	318
Seizures during labor	5
Births with no complications reported	9,347

Abruptio placenta: premature separation of a normally implanted placenta from the uterus.

Anesthetic complications: any complication during labor and/or delivery brought on by an anesthetic agent or agents.

Breech / Malpresentation: at birth, the presentation of the fetal buttocks rather than the head, or other malpresentation.

Cephalopelvic disproportion: the relationship of the size, presentation and position of the fetal head to the maternal pelvis, which prevents dilation of the cervix and/or descent of the fetal head.

Cord prolapse: premature expulsion of the umbilical cord in labor before the fetus is delivered.

Dysfunctional labor: failure to progress in a normal pattern of labor.

Febrile: a fever greater than 100 degrees F. or 38 degrees C. occurring during labor and/or delivery.

Fetal distress: signs indicating fetal hypoxia (deficiency in amount of oxygen reaching fetal tissues).

Meconium, moderate/heavy: meconium consists of undigested debris from swallowed amniotic fluid, various products of secretion, excretion, and shedding by the gastrointestinal tract; moderate to heavy amounts of meconium in the amniotic fluid noted during labor and/or delivery.

Other excessive bleeding: the loss of a significant amount of blood from conditions other than abruptio placenta or placenta previa.

Placenta previa: implantation of the placenta over or near the internal opening of the cervix.

Precipitous labor: extremely rapid labor and delivery lasting less than three hours.

Premature rupture of the membranes: rupture of the membranes at any time during pregnancy and more than 12 hours before the onset of labor.

Prolonged labor: abnormally slow progress of labor lasting more than 20 hours.

Seizures during labor: maternal seizures occurring during labor from any cause.

39. Top Fifty Names for Babies ■ New Hampshire, 1998

Boys'	Rank	Girls'
JACOB	1	EMILY
MATTHEW	2	HANNAH
NICHOLAS	3	SARAH
MICHAEL	4	MADISON
RYAN	5	SAMANTHA
TYLER	6	ASHLEY
ZACHARY	7	EMMA
ANDREW	8	TAYLOR
KYLE	9	ALEXIS
JOSHUA	10	OLIVIA
CAMERON	11	REBECCA
JOSEPH	12	ABIGAIL
BENJAMIN	13	JULIA
DYLAN	14	ELIZABETH
BRANDON	15	MEGAN
CHRISTOPHER	16	BRIANNA
DANIEL	17	JESSICA
SAMUEL	18	LAUREN
ALEXANDER	19	RACHEL
JUSTIN	20	ALYSSA
JAMES	21	NICOLE
NOAH	22	ERIN
AUSTIN	23	AMANDA
JOHN	24	KAYLA
WILLIAM	25	MOLLY
JONATHAN	26	MORGAN
DAVID	27	COURTNEY
NATHAN	28	KATHERINE
THOMAS	29	ALLISON
CODY	30	DANIELLE
TIMOTHY	31	ANNA
CONNOR	32	SYDNEY
HUNTER	33	ALEXANDRA
ADAM	34	PAIGE
ROBERT	35	SHANNON
SEAN	36	VICTORIA
ANTHONY	37	GABRIELLE
PATRICK	38	MADELINE
ETHAN	39	JORDAN
NATHANIEL	40	KATELYN
KEVIN	41	GRACE
ALEX	42	KELSEY
IAN	43	MARIAH
JASON	44	MEGHAN
TREVOR	45	MIKAYLA
CHRISTIAN	46	JENNA
JORDAN	47	JILLIAN
BRIAN	48	KAITLYN
ERIC	49	AMBER
AARON	50	CAITLIN

MORTALITY

There were 9,489 New Hampshire resident deaths in 1998, slightly above the 9,451 deaths observed in 1997. This continues a long-term trend and represents the greatest number of deaths to New Hampshire residents in over 75 years. However, the crude death rate decreased slightly from 806.2 to 800.7 deaths per 100,000, which is 11.4% below the corresponding 1998 US white rate of 904.0 per 100,000.³⁸ The changes observed between these two years are greatly affected by the overall growth and aging of the state's population, as well as changes in the distribution of underlying causes of death. One method of accounting for these differences is to compare the death rate adjusted for changes in the age distribution of the population. In comparing the age adjusted death rates between 1997 and 1998, a small decrease from 441.4 to 439.5 per 100,000 is observed.

During 1998, 7 out of 10 deaths occurred in hospitals and nursing homes. This proportion has decreased slightly compared to 1997. The proportion of people dying at home and in other facilities such as hospices has increased slightly and now represents 27.6% of all deaths.

There has been some fluctuation among the leading causes of death for New Hampshire residents. The age-adjusted death rate for heart disease increased slightly from 113.7 to 114.4 deaths per 100,000 between 1997 and 1998. Heart disease is the leading cause of death and is currently responsible for 29.8% of deaths in New Hampshire. The death rate from cancer, which is responsible for 25.6% of all New Hampshire deaths, decreased in a similar small proportion from 134.5 to 133.9 deaths per 100,000 during the same period. While the mortality rate for cerebrovascular disease decreased by 14.8% from 24.4 to 20.8 per 100,000, the rate for chronic obstructive pulmonary disease (COPD) increased from 24.5 to 25.6 per 100,000. The number of deaths, as well as the mortality rate, due to diabetes mellitus and conditions of the central nervous system, specifically Alzheimer's Disease, has decreased slightly, while the mortality number and rate for deaths due to pneumonia and influenza increased slightly. Deaths from mental disorders and chronic liver disease and cirrhosis remained relatively stable.

New Hampshire and the US have both been experiencing a decline in age-adjusted death rates. The 1998 New Hampshire rate is 2.4% below the 1998 US white rate of 450.4. New Hampshire's age-adjusted death rates were higher than the US white rates for cancer, benign neoplasms, diabetes, mental disorders, Alzheimer's disease, arterial disease, COPD, falls, and suicides. State rates were lower than US rates for heart disease, central nervous system conditions, cerebrovascular disease, hypertension, pneumonia and influenza, chronic liver disease, nephritis, and motor vehicle crash deaths.³⁹

Cancer is the leading cause of premature death among New Hampshire residents, responsible for 24.9% of the total years of productive life lost (YPLL). Deaths resulting from all unintentional injuries, primarily motor vehicle crashes, were the second highest cause of years of productive life lost. Although only 14.5% of heart disease deaths occur among people under age 65, this condition represents the third leading cause of productive years lost. Suicide ranks as the fourth leading cause of years of productive life lost, due to the relatively large number of events among younger populations. Congenital anomalies and conditions of the perinatal period, which in many cases result in the maximum impact in terms of years of life lost, also rank among the leading causes of premature death. It is in-

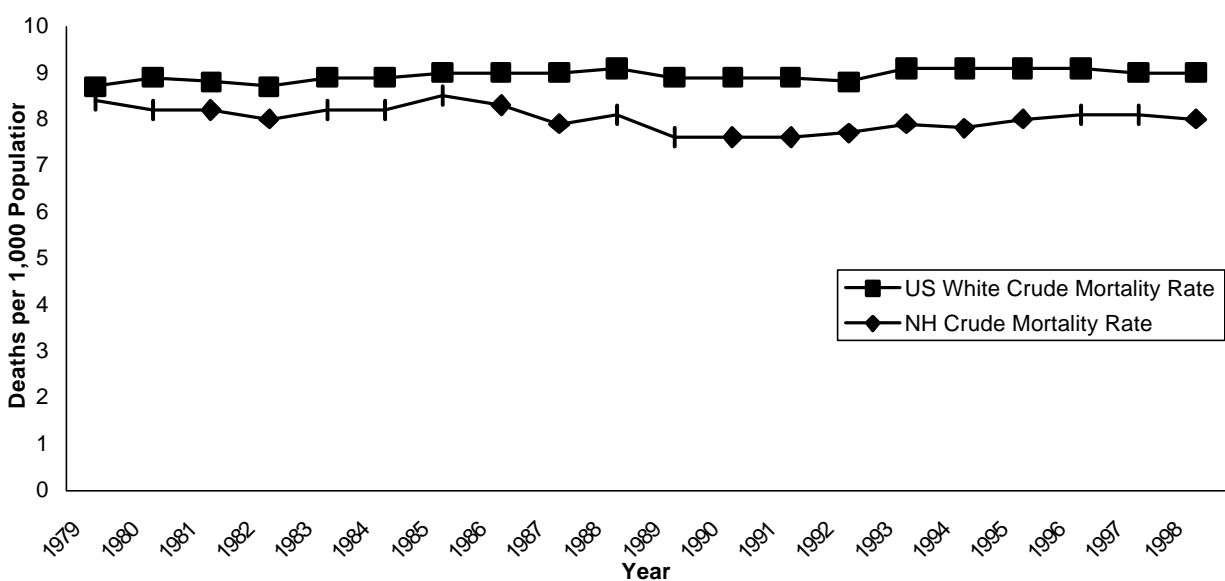
interesting to note that congenital anomalies account for a relatively large number of deaths beyond the first year of life. While there were 46 deaths attributable to congenital anomalies in 1998, only one third were infants, with the average age at death being 38 years old and nearly 25% of the cases living beyond age 65.

The current report provides more detail regarding injury deaths than has been provided in previous reports. Motor vehicle crashes, affecting mostly younger age groups, are by far the greatest single cause of unintentional injury deaths, followed closely by falls, which have their greatest affect on the oldest age groups. Unintentional overdoses and poisonings are the third leading cause of unintentional injury deaths. Although there has been little focus on this cause of death, unintentional overdoses and poisonings are responsible for nearly as many deaths among the population aged 35-44 as motor vehicle crashes.

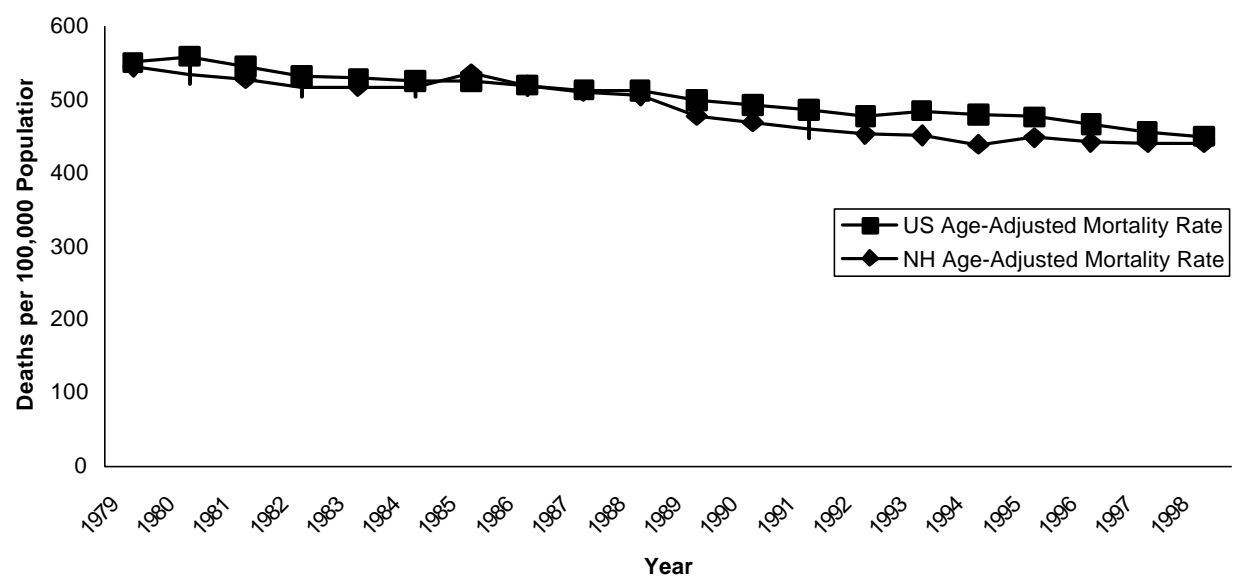
Suicides, which occur most frequently among teens, young adult and middle-aged males, are responsible for more deaths than occur from motor vehicle crashes. By far the single most common method of committing suicide across all age groups is by firearm. Firearms are the method used in 54.5% of all suicides. Among males of all ages, guns were used in 60% of those suicides; females used guns in 33% of suicides.

Nationally, the death rate due to HIV/AIDS has been declining dramatically since 1995. In 1998, the US white mortality rate dropped from the 1997 rate of 3.3 to 2.6 per 100,000, and has been cut to 23% of the 1995 peak of 11.1 per 100,000.⁴⁰ New Hampshire has witnessed similar startling results. The number of deaths due to HIV/AIDS dropped from a peak of 45 deaths in 1995 and a rate of 3.6 per 100,000 to just 13 deaths in 1998. Although this small number of events precludes the calculation of a reliable single year rate, a composite 1997-98 rate (not presented in this report) results in an age adjusted rate of 0.9 per 100,000, which is one-fourth of the 1995 rate and 69.5% below the US rate.

40. Crude Mortality Rate Trend ■ New Hampshire and United States, 1979-1998



41. Age-Adjusted Mortality Rate Trend ■ New Hampshire and United States, 1979-1998



42. Death Occurrences ■ New Hampshire, 1998

Deaths Occurring in New Hampshire by Decedent's State of Residence	
New Hampshire	8,686
Massachusetts	454
Vermont	130
Florida	81
Maine	49
Other	89
Total	9,489

43. Resident Deaths ■ New Hampshire, 1998

New Hampshire Resident Deaths by State of Death	
New Hampshire	8,686
Vermont	322
Massachusetts	193
Maine	135
Florida	58
Other	92
Total	9,486

44. Resident Deaths by Town and County ■ New Hampshire, 1998

	Deaths		Deaths
Belknap County		Marlborough	15
Alton	35	Marlow	4
Barnstead	17	Nelson	3
Belmont	41	Richmond	5
Center Harbor	14	Rindge	21
Gilford	44	Roxbury	1
Gilmanton	13	Stoddard	5
Laconia	219	Sullivan	5
Meredith	64	Surry	1
New Hampton	4	Swanzey	55
Sanbornton	18	Troy	17
Tilton	55	Walpole	29
County Total	524	Westmoreland	29
		Winchester	58
Carroll County		County Total	672
Albany	7	Coos County	
Bartlett	15	Berlin	161
Brookfield	3	Carroll	6
Chatham	5	Clarksville	1
Conway	129	Colebrook	26
Eaton	3	Columbia	4
Effingham	10	Dalton	6
Freedom	13	Dummer	1
Jackson	5	Errol	4
Madison	13	Gorham	30
Moultonborough	27	Jefferson	8
Ossipee	42	Lancaster	50
Sandwich	14	Milan	11
Tamworth	33	Northumberland	24
Tuftonboro	16	Pittsburg	15
Wakefield	35	Randolph	4
Wolfeboro	69	Stark	4
County Total	439	Stewartstown	23
		Stratford	9
Cheshire County		Wentworth's Location	1
Alstead	11	Whitefield	33
Chesterfield	20	County Total	421
Dublin	11	Grafton County	
Fitzwilliam	12	Alexandria	7
Gilsum	10	Ashland	15
Harrisville	8	Bath	4
Hinsdale	35	Benton	8
Jaffrey	58		
Keene	259		

44. Resident Deaths by Town and County ■ New Hampshire, 1998 (continued)

	Deaths		Deaths
Bethlehem	18	Goffstown	117
Bridgewater	5	Greenfield	6
Bristol	30	Greenville	23
Campton	13	Hancock	13
Canaan	19	Hillsboro	38
Dorchester	2	Hollis	29
Easton	1	Hudson	132
Ellsworth	1	Litchfield	8
Enfield	36	Lyndeborough	5
Franconia	18	Manchester	977
Grafton	11	Mason	4
Groton	4	Merrimack	84
Hanover	80	Milford	90
Haverhill	67	Mont Vernon	7
Hebron	4	Nashua	616
Holderness	12	New Boston	18
Landaff	4	New Ipswich	14
Lebanon	147	Pelham	51
Lincoln	17	Peterborough	67
Lisbon	16	Sharon	4
Littleton	60	Temple	5
Lyman	4	Weare	35
Lyme	6	Wilton	39
Monroe	7	County Total	2,631
Orange	3		
Orford	8	Merrimack County	
Piermont	7	Allenstown	39
Plymouth	26	Andover	19
Rumney	18	Boscawen	75
Sugar Hill	8	Bow	34
Thornton	12	Bradford	11
Warren	6	Canterbury	17
Waterville	2	Chichester	13
Wentworth	6	Concord	397
Woodstock	12	Danbury	7
County Total	724	Dunbarton	10
		Epsom	48
Hillsborough County		Franklin	102
Amherst	41	Henniker	21
Antrim	16	Hill	2
Bedford	151	Hooksett	75
Bennington	9	Hopkinton	32
Brookline	16	Loudon	26
Deering	7	Newbury	69
Francestown	9	New London	17

44. Resident Deaths by Town and County ■ New Hampshire, 1998 (continued)

	Deaths		Deaths
Northfield	21	South Hampton	4
Pembroke	24	Stratham	26
Pittsfield	29	Windham	50
Salisbury	10	County Total	1,771
Sutton	10		
Warner	21	Strafford County	
Webster	6	Barrington	24
Wilmot	6	Dover	223
County Total	1,141	Durham	30
		Farmington	44
Rockingham County		Lee	8
Atkinson	42	Madbury	10
Auburn	19	Middleton	8
Brentwood	15	Milton	23
Candia	16	New Durham	21
Chester	17	Rochester	264
Danville	23	Rollinsford	10
Deerfield	17	Somersworth	102
Derry	176	Strafford	12
East Kingston	14	County Total	779
Epping	45		
Exeter	173	Sullivan County	
Fremont	19	Acworth	1
Greenland	14	Charlestown	45
Hampstead	32	Claremont	172
Hampton	133	Cornish	13
Hampton Falls	11	Croydon	2
Kensington	11	Goshen	11
Kingston	32	Grantham	8
Londonderry	69	Langdon	2
New Castle	9	Lempster	4
Newfields	4	Newport	66
Newington	6	Plainfield	12
Newmarket	33	Springfield	7
Newton	16	Sunapee	20
North Hampton	22	Unity	13
Northwood	24	Washington	9
Nottingham	22	County Total	385
Plaistow	44		
Portsmouth	214	Residence unknown	2
Raymond	60		
Rye	71	Total ⁴¹	9,489
Salem	196		
Sandown	23		
Seabrook	69		

45. Resident Deaths by Place of Death ■ New Hampshire, 1998

Place	Deaths
In-state hospital	3,646
Nursing home	2,397
Decedents home	2,025
Out state hospital	595
Other facilities/homes	559
Street address (not home)	84
All other and unknown	183
Total	9,489

46. Resident Deaths by Site in Hospital ■ New Hampshire, 1998

Site in Hospital	Deaths
Inpatient	2,919
Outpatient or emergency department	632
Dead on arrival	95
Total	3,646

47. Resident Deaths by Race ■ New Hampshire, 1998

Race	Deaths
White	9,435
Black	26
Asian / Pacific Islander	15
American Indian / Eskimo	3
Other / Unknown	10
Total	9,489

48. Resident Deaths by Hispanic Origin ■ New Hampshire, 1998

Race / Hispanic Origin	Deaths
Non-Hispanic	8,866
Hispanic	29
Unknown	594
Total	9,489

49. Underlying Cause of Death Groupings⁴² and Defining ICD-9 Code Ranges⁴³ for Reported Mortality

Cause of Death Grouping	ICD-9 Code
Internal (Disease)	
Septicemia	038-038.9
HIV	042-044.9
Other infectious & parasitic diseases	001-037.9, 039-041.9 045-139.9
Malignant neoplasms	140-208.9
Benign neoplasms & neoplasms of an unspecified nature	210-239.9
Diabetes mellitus	250-250.9
Nutritional deficiencies	260-269.9
Mental disorders	290-319.9
Alzheimer's	331.0
Other hereditary & degenerative central nervous system (CNS)	330-330.9, 331.1-349.9
Diseases of the heart	390-398.9, 402-402.9 404-429.9
Hypertension with or without renal disease	401-401.9, 403-403.9
Cerebrovascular diseases	430-438
Atherosclerosis	440-440.9
Other diseases of the arteries, arterioles, capillaries	441-448.9
Pneumonia and influenza	480-487.9
Chronic obstructive pulmonary disease (COPD) & allied conditions	490-496.9
Chronic liver disease & cirrhosis	571-571.9
Nephritis, nephrotic syndrome, & nephrosis	580-589.9
Congenital anomalies	740-759.9
Conditions originating in the perinatal period	760-779.9
Other internal causes	(Residual of 001-799.4)
Ill-defined, unknown or unspecified	799.8-799.9
External (Accidental and Intentional)	
Motor vehicle crashes (traffic)	E810-E819, E929.0
Other transport crashes (non-traffic)	E800-E807, E820-E849
Unintentional overdose & poisoning	E850-E869, E929.2
Unintentional fall	E880-E888, E929.3
Other unintentional injuries	E870-E879, E890-E928 E929.1, E929.4-E949
Suicide	E950-E959
Criminal homicide	E960-E969
Other external or undetermined as to intent	E970-E999

50. Resident Age-Adjusted Death Rates per 100,000 Population⁴⁴ for Underlying Causes of Death ■ New Hampshire, 1998

Underlying Causes of Death	Deaths	Percent of Deaths	Age-Adjusted Rate
<i>Internal (Disease)</i>			
Septicemia	55	0.6	2.4
HIV	13	0.1	-
Other infectious & parasitic diseases	53	0.6	3.2
Malignant neoplasms	2,427	25.6	133.8
Benign neoplasms & neoplasms of an unspecified nature	42	0.4	2.0
Diabetes mellitus	265	2.8	12.7
Nutritional deficiencies	40	0.4	0.9
Mental disorders	257	2.7	7.9
Alzheimer's	126	1.3	3.4
Other hereditary & degenerative central nervous system	126	1.3	6.4
Diseases of the heart	2,826	29.8	114.3
Hypertension with or without renal disease	43	0.5	1.4
Cerebrovascular diseases	621	6.6	20.7
Atherosclerosis	66	0.7	2.0
Other Diseases of the arteries, arterioles, capillaries	151	1.6	6.4
Pneumonia and Influenza	296	3.1	9.0
Chronic obstructive pulmonary disease & allied conditions	561	5.9	25.7
Chronic liver disease & cirrhosis	105	1.1	6.6
Nephritis, nephrotic syndrome, & nephrosis	71	0.8	2.7
Congenital anomalies	45	0.5	3.6
Conditions originating in the perinatal period	34	0.4	3.6
Other internal causes	721	7.6	30.3
Ill-defined, unknown or unspecified	10	0.1	-
<i>External (Accidental and Intentional)</i>			
Motor vehicle crashes (traffic)	139	1.5	11.7
Other transport crashes (non-traffic)	14	0.1	-
Unintentional overdose & poisoning	44	0.5	3.3
Unintentional fall	81	0.8	3.1
Other unintentional injuries	76	0.8	4.7
Suicide	154	1.6	12.9
Criminal homicide	18	0.2	-
Other external or undetermined as to intent	9	0.1	-
Total Deaths	9,489	100.0	439.5

"-" indicates that a rate could not be calculated as rates based on <20 events do not meet the standard of reliability.

Mortality

51. Resident Age-Specific and Age-Adjusted Mortality Rates for Underlying Causes of Death ■ New Hampshire, 1998

Underlying Cause of Death Grouping	Age-Specific Rate											Age-Adjusted Rate ⁴⁵	
	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	NH	US White
Internal (Disease)													
Septicemia	-	-	-	-	-	-	-	-	-	49.2	-	2.4	3.8
HIV	-	-	-	-	1.6	3.2	1.9	-	-	-	-	-	2.6
Other infectious & parasitic diseases	-	-	-	-	-	-	-	-	-	-	40.0	3.2	3.3*
Malignant neoplasms	-	-	-	-	15.4	38.3	144.1	437.7	881.5	1,404.1	1,890.0	133.8	121.0
Benign neoplasms & those of an unspecified nature	-	-	-	-	-	-	-	-	-	-	-	2.0	1.6
Diabetes mellitus	-	-	-	-	-	-	-	33.7	90.8	170.1	342.6	12.7	12.0
Nutritional deficiencies	-	-	-	-	-	-	-	-	-	-	177.0	0.9	0.5
Mental disorders	-	-	-	-	-	-	-	-	27.6	149.6	805.1	7.9	7.1*
Alzheimer's	-	-	-	-	-	-	-	-	-	98.4	388.3	3.4	2.8
Other hereditary & degenerative CNS	14.0	-	-	-	-	-	-	-	28.9	75.8	159.9	6.4	9.3*
Diseases of the heart	-	-	-	-	-	21.2	75.9	266.0	694.7	1,754.6	5,898.5	114.3	121.9
Hypertension with or without renal disease	-	-	-	-	-	-	-	-	-	-	125.6	1.4	1.9
Cerebrovascular diseases	-	-	-	-	-	-	-	35.9	90.8	461.2	1,604.5	20.7	23.3
Atherosclerosis	-	-	-	-	-	-	-	-	-	43.0	205.6	2.0	2.0
Other Diseases of arteries, arterioles, capillaries	-	-	-	-	-	-	-	-	47.4	86.1	296.9	6.4	5.1
Pneumonia and Influenza	-	-	-	-	-	-	-	-	44.7	174.2	925.0	9.0	12.7
COPD & allied conditions	-	-	-	-	-	-	-	67.3	197.4	459.2	650.9	25.7	21.9
Chronic liver disease & cirrhosis	-	-	-	-	-	-	-	25.8	34.2	53.3	-	6.6	7.1
Nephritis, nephrotic syndrome, & nephrosis	-	-	-	-	-	-	-	-	-	45.1	159.9	2.7	3.9
Congenital anomalies	104.8	-	-	-	-	-	-	-	-	-	-	3.6	4.1
Conditions originating in the perinatal period	230.5	-	-	-	-	-	-	-	-	-	-	3.6	4.1
Other internal causes	-	-	-	-	-	-	18.0	53.9	165.8	457.1	1,433.2	30.3	30.7*
Ill-defined, unknown or unspecified	-	-	-	-	-	-	-	-	-	-	-	-	5.5
External (Accidental and Intentional)													
Motor vehicle crashes (traffic)	-	-	-	25.1	11.5	9.0	-	-	-	-	-	11.7	15.3
Motor vehicle & other transport crashes (non-traffic)	-	-	-	-	-	-	-	-	-	-	-	-	1.2
Unintentional overdose & poisoning	-	-	-	-	-	-	-	-	-	-	-	3.3	3.8
Unintentional fall	-	-	1.2	-	-	-	-	-	-	63.5	165.6	3.1	2.3
Other unintentional injuries	-	-	-	-	-	-	-	-	-	-	-	4.7	6.4*
Suicide	-	-	-	22.4	17.0	18.0	14.2	-	-	-	-	12.9	11.2
Criminal homicide	-	-	-	-	-	-	-	-	-	-	-	-	4.4*
Other external or undetermined as to intent	-	-	-	-	-	-	-	-	-	-	-	-	1.2*
All causes	433.1	8.5	12.0	72.6	74.7	138.4	345.4	1,053.7	2,438.0	5,735.3	15,554.1	439.5	456.5

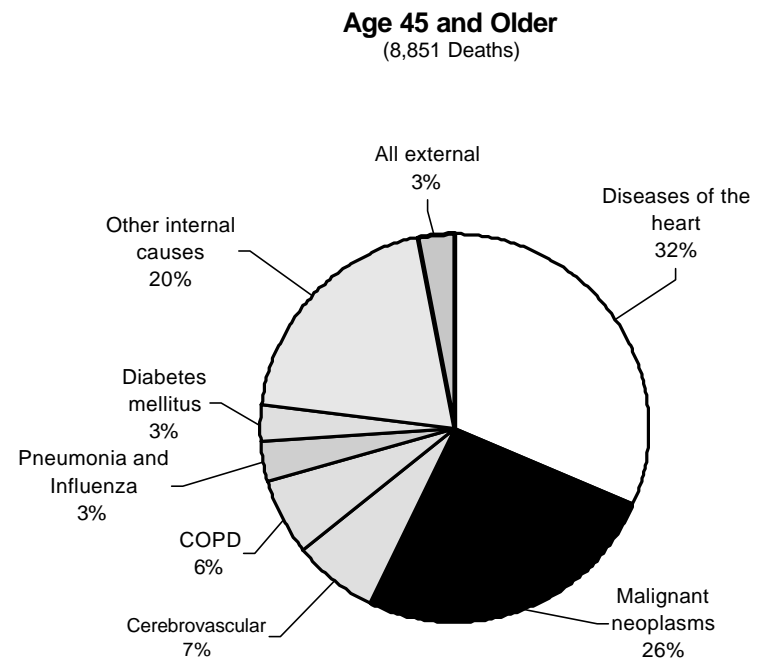
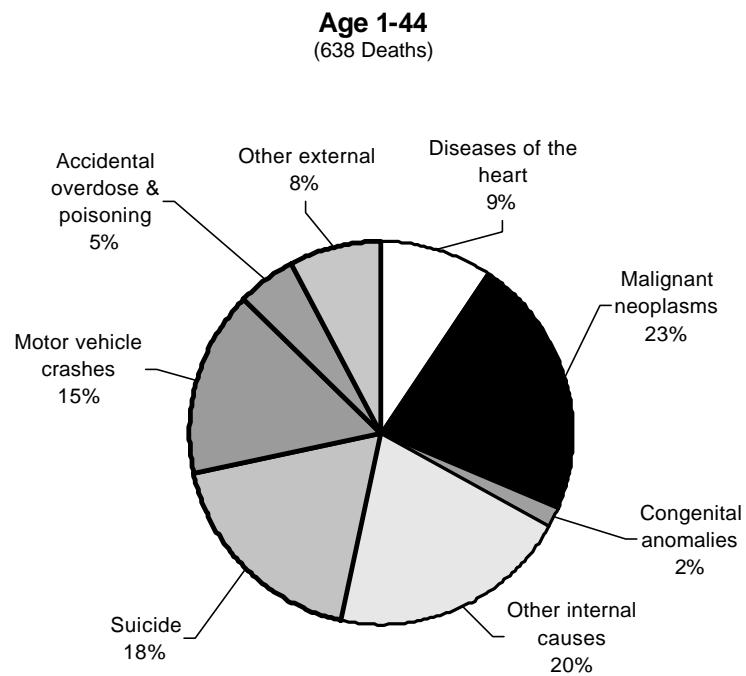
"-" indicates that a rate could not be calculated as rates based on <20 events do not meet the standard of reliability.

* US rate for 1998 was unavailable at the time of publication; the rate shown is for 1997.

52. Resident Underlying Causes of Death by Age Group ■ New Hampshire, 1998

Underlying Cause of Death Grouping	Age Group											Total
	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	
Internal (Disease)												
Septicemia	0	0	0	0	0	3	4	8	2	24	14	55
HIV	0	0	0	0	3	7	3	0	0	0	0	13
Other infectious & parasitic diseases	0	0	1	2	0	5	9	7	11	11	7	53
Malignant neoplasms	0	0	5	9	28	85	224	390	670	685	331	2427
Benign neoplasms & neoplasms of an unspecified nature	0	0	0	0	1	2	5	2	7	18	7	42
Diabetes mellitus	0	0	0	0	4	7	12	30	69	83	60	265
Nutritional deficiencies	0	0	0	0	0	0	0	0	2	7	31	40
Mental disorders	0	0	1	0	2	4	8	7	21	73	141	257
Alzheimer's	0	0	0	0	0	0	0	1	9	48	68	126
Other hereditary & degenerative central nervous system	2	0	0	0	2	5	13	17	22	37	28	126
Diseases of the heart	0	0	0	2	5	47	118	237	528	856	1,033	2826
Hypertension with or without renal disease	0	0	0	0	1	0	0	2	4	14	22	43
Cerebrovascular diseases	0	0	0	0	2	5	8	32	68	225	281	621
Atherosclerosis	0	0	0	0	0	0	0	3	6	21	36	66
Other Diseases of the arteries, arterioles, capillaries	0	0	0	0	3	2	6	10	36	42	52	151
Pneumonia and Influenza	0	0	0	0	1	1	3	10	34	85	162	296
Chronic obstructive pulmonary disease & allied conditions	0	0	0	0	0	2	11	60	150	224	114	561
Chronic liver disease & cirrhosis	0	0	0	0	1	6	18	23	26	26	5	105
Nephritis, nephrotic syndrome, & nephrosis	0	0	0	0	0	4	3	3	11	22	28	71
Congenital anomalies	15	1	1	1	3	3	4	6	0	8	3	45
Conditions originating in the perinatal period	33	1	0	0	0	0	0	0	0	0	0	34
Other internal causes	11	1	3	5	8	17	28	48	126	223	251	721
Ill-defined, unknown or unspecified	0	0	0	3	0	2	3	0	0	0	2	10
External (Accidental and Intentional)												
Motor vehicle crashes (traffic)	1	0	4	37	21	20	10	14	16	11	5	139
Other transport crashes (non-traffic)	0	1	0	2	1	3	2	1	3	1	0	14
Unintentional overdose & poisoning	0	0	0	5	6	19	6	3	2	3	0	44
Unintentional fall	0	0	2	0	0	2	4	5	8	31	29	81
Other unintentional injuries	0	1	2	7	4	7	10	5	11	17	11	75
Suicide	0	0	1	33	31	40	22	13	9	3	2	154
Criminal homicide	0	0	1	1	7	4	1	2	2	0	1	19
Other external or undetermined as to intent	0	0	0	0	2	5	2	0	0	0	0	9
All causes	62	5	21	107	136	307	537	939	1,853	2,798	2,724	9,489

53. Leading Underlying Causes of Death by Age Group for Non-Infant Deaths ■ New Hampshire, 1998



54. Underlying Causes of Death by County of Residence and Age Group ■ New Hampshire: Belknap County, 1998

Underlying Cause of Death Grouping	Age Group											Total
	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	
Internal (Disease)												
Septicemia	0	0	0	0	0	0	0	1	0	1	0	2
HIV	0	0	0	0	0	1	1	0	0	0	0	2
Other infectious & parasitic diseases	0	0	0	0	0	0	0	0	0	0	2	2
Malignant neoplasms	0	0	1	0	0	6	10	14	61	35	17	144
Benign neoplasms & neoplasms of an unspecified nature	0	0	0	0	0	0	0	0	1	2	1	4
Diabetes mellitus	0	0	0	0	0	0	0	0	4	2	3	9
Nutritional deficiencies	0	0	0	0	0	0	0	0	1	2	4	7
Mental disorders	0	0	0	0	0	0	0	0	1	2	7	10
Alzheimer's	0	0	0	0	0	0	0	0	1	2	2	5
Other hereditary & degenerative central nervous system	0	0	0	0	0	1	1	1	2	2	2	9
Diseases of the heart	0	0	0	0	0	4	6	16	42	40	48	156
Hypertension with or without renal disease	0	0	0	0	0	0	0	0	0	0	2	2
Cerebrovascular diseases	0	0	0	0	0	0	2	1	5	16	15	39
Atherosclerosis	0	0	0	0	0	0	0	0	0	2	2	4
Other diseases of the arteries, arterioles, capillaries	0	0	0	0	0	0	1	1	0	2	3	7
Pneumonia and Influenza	0	0	0	0	0	0	0	0	1	7	4	12
Chronic obstructive pulmonary disease & allied conditions	0	0	0	0	0	0	0	2	9	15	9	35
Chronic liver disease & cirrhosis	0	0	0	0	1	2	0	1	2	1	0	7
Nephritis, nephrotic syndrome, & nephrosis	0	0	0	0	0	0	0	0	1	0	1	2
Congenital anomalies	0	0	0	0	0	0	0	1	0	0	0	1
Conditions originating in the perinatal period	1	0	0	0	0	0	0	0	0	0	0	1
Other internal causes	0	0	0	0	0	1	0	5	5	13	11	35
External (Accidental and Intentional)												
Motor vehicle crashes (traffic)	0	0	0	1	0	0	1	1	0	0	0	3
Other transport crashes (non-traffic)	0	0	0	0	0	1	0	0	0	0	0	1
Unintentional overdose & poisoning	0	0	0	0	1	0	0	1	0	0	0	2
Unintentional fall	0	0	0	0	0	0	1	0	1	1	3	6
Other unintentional injuries	0	0	0	2	0	0	0	0	1	1	0	4
Suicide	0	0	0	0	4	3	0	0	0	1	0	8
Criminal homicide	0	0	1	0	1	1	1	0	0	0	0	4
Other external or undetermined as to intent	0	0	0	0	0	0	1	0	0	0	0	1
All Causes	1	0	2	3	7	20	25	45	138	147	136	524

Mortality

55. Underlying Causes of Death by County of Residence and Age Group ■ New Hampshire: Carroll County, 1998

Underlying Cause of Death Grouping	Age Group											Total
	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	
Internal (Disease)												
Malignant neoplasms	0	0	0	0	0	5	13	19	21	35	17	110
Benign neoplasms & neoplasms of an unspecified nature	0	0	0	0	1	0	0	0	1	1	0	3
Diabetes mellitus	0	0	0	0	0	0	1	1	2	3	3	10
Nutritional deficiencies	0	0	0	0	0	0	0	0	0	0	1	1
Mental disorders	0	0	0	0	0	0	0	2	1	4	10	17
Alzheimer's	0	0	0	0	0	0	0	0	1	2	6	9
Other hereditary & degenerative central nervous system	1	0	0	0	0	1	2	1	3	1	0	9
Diseases of the heart	0	0	0	0	0	3	4	4	21	49	47	128
Hypertension with or without renal disease	0	0	0	0	0	0	0	1	1	0	2	4
Cerebrovascular diseases	0	0	0	0	0	0	0	0	5	11	18	34
Other diseases of the arteries, arterioles, capillaries	0	0	0	0	0	0	0	0	2	2	2	6
Pneumonia and Influenza	0	0	0	0	0	0	0	1	1	3	2	7
Chronic obstructive pulmonary disease & allied conditions	0	0	0	0	0	0	1	2	7	10	3	23
Chronic liver disease & cirrhosis	0	0	0	0	0	1	1	2	4	3	0	11
Nephritis, nephrotic syndrome, & nephrosis	0	0	0	0	0	1	0	0	2	1	3	7
Congenital anomalies	1	0	0	0	0	0	0	0	0	0	0	1
Other internal causes	0	0	0	1	0	1	0	4	8	13	4	31
Ill-defined, unknown or unspecified	0	0	0	1	0	0	0	0	0	0	0	1
External (Accidental and Intentional)												
Motor vehicle crashes (traffic)	0	0	0	3	0	1	0	4	2	1	0	11
Other transport crashes (non-traffic)	0	0	0	0	0	0	1	0	0	0	0	1
Unintentional overdose & poisoning	0	0	0	0	0	0	1	0	0	0	0	1
Unintentional fall	0	0	1	0	0	0	1	0	0	1	1	4
Other unintentional injuries	0	0	0	0	1	0	0	0	0	0	0	1
Suicide	0	0	1	2	3	0	0	2	0	0	0	8
Criminal homicide	0	0	0	0	1	0	0	0	0	0	0	1
All Causes	2	0	2	7	6	13	25	43	82	140	119	439

56. Underlying Causes of Death by County of Residence and Age Group ■ New Hampshire: Cheshire County, 1998

Underlying Cause of Death Grouping	Age Group											Total
	< 1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	
Internal (Disease)												
Septicemia	0	0	0	0	0	0	0	0	0	3	0	3
HIV	0	0	0	0	0	2	0	0	0	0	0	2
Other infectious & parasitic diseases	0	0	0	0	0	1	0	1	0	0	0	2
Malignant neoplasms	0	0	1	1	3	4	19	15	58	47	20	168
Benign neoplasms & neoplasms of an unspecified nature	0	0	0	0	0	0	1	0	1	0	1	3
Diabetes mellitus	0	0	0	0	1	0	1	0	4	5	2	13
Nutritional deficiencies	0	0	0	0	0	0	0	0	0	0	2	2
Mental disorders	0	0	0	0	0	1	0	0	5	10	7	23
Alzheimer's	0	0	0	0	0	0	0	0	1	3	7	11
Other hereditary & degenerative central nervous system	0	0	0	0	0	0	1	1	1	4	5	12
Diseases of the heart	0	0	0	0	1	4	5	14	30	57	73	184
Hypertension with or without renal disease	0	0	0	0	0	0	0	0	0	0	3	3
Cerebrovascular diseases	0	0	0	0	0	0	0	1	7	18	25	51
Atherosclerosis	0	0	0	0	0	0	0	1	2	2	9	14
Other diseases of the arteries, arterioles, capillaries	0	0	0	0	1	1	1	1	2	2	2	10
Pneumonia and Influenza	0	0	0	0	0	0	0	0	3	9	12	24
Chronic obstructive pulmonary disease & allied conditions	0	0	0	0	0	0	0	5	14	12	9	40
Chronic liver disease & cirrhosis	0	0	0	0	0	0	1	1	1	4	2	9
Nephritis, nephrotic syndrome, & nephrosis	0	0	0	0	0	0	0	0	0	0	4	4
Congenital anomalies	0	0	0	0	2	0	0	1	0	0	1	4
Other internal causes	0	0	0	0	0	2	0	6	7	11	21	47
External (Accidental and Intentional)												
Motor vehicle crashes (traffic)	0	0	1	7	3	1	0	0	1	0	1	14
Other transport crashes (non-traffic)	0	1	0	0	0	0	0	1	2	0	0	4
Unintentional overdose & poisoning	0	0	0	0	0	1	0	0	0	1	0	2
Unintentional fall	0	0	0	0	0	0	0	0	1	3	1	5
Other unintentional injuries	0	0	1	0	0	1	1	1	1	0	1	6
Suicide	0	0	0	7	1	1	1	1	1	0	0	12
All causes	0	1	3	15	12	19	31	50	142	191	208	672

Mortality

57. Underlying Causes of Death by County of Residence and Age Group ■ New Hampshire: Coos County, 1998

Underlying Cause of Death Grouping	Age Group											Total
	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	
Internal (Disease)												
Septicemia	0	0	0	0	0	0	0	1	1	0	2	4
Other infectious & parasitic diseases	0	0	0	0	0	1	0	1	0	1	0	3
Malignant neoplasms	0	0	0	0	1	3	5	21	27	26	12	95
Benign neoplasms & neoplasms of an unspecified nature	0	0	0	0	0	0	1	0	0	1	0	2
Diabetes mellitus	0	0	0	0	0	1	0	1	1	4	5	12
Nutritional deficiencies	0	0	0	0	0	0	0	0	0	0	1	1
Mental disorders	0	0	0	0	0	0	0	2	0	2	8	12
Alzheimer's	0	0	0	0	0	0	0	0	0	1	2	3
Other hereditary & degenerative central nervous system	0	0	0	0	0	0	0	0	1	3	2	6
Diseases of the heart	0	0	0	0	0	2	6	13	30	46	38	135
Hypertension with or without renal disease	0	0	0	0	0	0	0	0	0	0	1	1
Cerebrovascular diseases	0	0	0	0	0	0	0	2	4	10	15	31
Other diseases of the arteries, arterioles, capillaries	0	0	0	0	0	0	0	0	2	2	3	7
Pneumonia and Influenza	0	0	0	0	0	0	0	1	4	5	7	17
Chronic obstructive pulmonary disease & allied conditions	0	0	0	0	0	0	0	7	3	5	3	18
Chronic liver disease & cirrhosis	0	0	0	0	0	0	1	1	1	1	1	5
Nephritis, nephrotic syndrome, & nephrosis	0	0	0	0	0	0	0	0	1	0	1	2
Congenital anomalies	2	0	0	0	0	0	0	0	0	0	0	2
Other internal causes	1	0	0	0	0	0	2	2	5	15	15	40
Ill-defined, unknown or unspecified	0	0	0	0	0	0	0	0	0	0	1	1
External (Accidental and Intentional)												
Motor vehicle crashes (traffic)	0	0	0	3	1	1	0	1	0	0	0	6
Unintentional overdose & poisoning	0	0	0	0	0	0	1	0	0	0	0	1
Unintentional fall	0	0	0	0	0	0	0	0	0	3	0	3
Other unintentional injuries	0	0	0	0	0	0	0	1	2	4	1	8
Suicide	0	0	0	0	3	2	0	0	0	0	0	5
Other external or undetermined as to intent	0	0	0	0	0	1	0	0	0	0	0	1
All causes	3	0	0	3	5	11	16	54	82	129	118	421

58. Underlying Causes of Death by County of Residence and Age Group ■ New Hampshire: Grafton County, 1998

Underlying Cause of Death Grouping	Age Group											Total
	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	
Internal (Disease)												
Septicemia	0	0	0	0	0	0	1	0	0	2	4	7
Other infectious & parasitic diseases	0	0	0	0	0	0	0	2	0	1	0	3
Malignant neoplasms	0	0	0	1	0	9	15	27	31	65	18	166
Benign neoplasms & neoplasms of an unspecified nature	0	0	0	0	0	0	0	0	0	1	0	1
Diabetes mellitus	0	0	0	0	1	0	1	3	3	7	3	18
Nutritional deficiencies	0	0	0	0	0	0	0	0	0	0	1	1
Mental disorders	0	0	0	0	0	1	0	0	3	5	14	23
Alzheimer's	0	0	0	0	0	0	0	0	1	4	5	10
Other hereditary & degenerative central nervous system	0	0	0	0	0	0	0	0	0	1	5	6
Diseases of the heart	0	0	0	0	0	3	8	25	35	62	80	213
Hypertension with or without renal disease	0	0	0	0	0	0	0	0	1	3	2	6
Cerebrovascular diseases	0	0	0	0	0	0	0	0	7	17	19	43
Atherosclerosis	0	0	0	0	0	0	0	0	1	1	1	3
Other diseases of the arteries, arterioles, capillaries	0	0	0	0	1	0	1	1	5	4	6	18
Pneumonia and Influenza	0	0	0	0	0	0	0	0	1	8	18	27
Chronic obstructive pulmonary disease & allied conditions	0	0	0	0	0	0	1	0	15	18	11	45
Chronic liver disease & cirrhosis	0	0	0	0	0	0	0	3	2	0	1	6
Nephritis, nephrotic syndrome, & nephrosis	0	0	0	0	0	0	0	0	0	2	2	4
Congenital anomalies	1	0	0	0	0	0	1	1	0	1	0	4
Other internal causes	2	0	0	2	0	1	2	2	14	23	31	77
Ill-defined, unknown or unspecified	0	0	0	0	0	0	1	0	0	0	0	1
External (Accidental and Intentional)												
Motor vehicle crashes (traffic)	1	0	1	2	1	1	0	0	0	2	0	8
Other transport crashes (non-traffic)	0	0	0	0	0	0	0	0	1	0	0	1
Unintentional overdose & poisoning	0	0	0	0	0	1	0	0	0	0	0	1
Unintentional fall	0	0	0	0	0	1	0	0	0	3	3	7
Other unintentional injuries	0	0	0	0	0	1	0	0	1	0	1	3
Suicide	0	0	0	2	5	5	4	1	2	1	0	20
Criminal homicide	0	0	0	0	0	1	0	1	0	0	0	2
All causes	4	0	1	7	8	24	35	66	123	231	225	724

Mortality

59. Underlying Causes of Death by County of Residence and Age Group ■ New Hampshire: Hillsborough County, 1998

Underlying Cause of Death Grouping	Age Group											Total
	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	
Internal (Disease)												
Septicemia	0	0	0	0	0	0	2	0	0	5	3	10
HIV	0	0	0	0	1	3	2	0	0	0	0	6
Other infectious & parasitic diseases	0	0	0	1	0	2	4	3	5	5	1	21
Malignant neoplasms	0	0	1	4	6	16	54	82	192	174	91	620
Benign neoplasms & neoplasms of an unspecified nature	0	0	0	0	0	0	1	2	3	8	1	15
Diabetes mellitus	0	0	0	0	1	4	3	7	22	27	17	81
Nutritional deficiencies	0	0	0	0	0	0	0	0	0	4	17	21
Mental disorders	0	0	0	0	0	1	3	2	1	21	28	56
Alzheimer's	0	0	0	0	0	0	0	1	3	14	19	37
Other hereditary & degenerative central nervous system	0	0	0	0	1	0	7	8	11	11	5	43
Diseases of the heart	0	0	0	1	2	13	37	62	149	256	300	820
Hypertension with or without renal disease	0	0	0	0	0	0	0	0	0	6	7	13
Cerebrovascular diseases	0	0	0	0	0	1	3	13	21	57	80	175
Atherosclerosis	0	0	0	0	0	0	0	2	2	9	14	27
Other diseases of the arteries, arterioles, capillaries	0	0	0	0	0	0	0	2	12	12	16	42
Pneumonia and Influenza	0	0	0	0	1	1	1	3	9	24	35	74
Chronic obstructive pulmonary disease & allied conditions	0	0	0	0	0	1	6	19	43	53	29	151
Chronic liver disease & cirrhosis	0	0	0	0	0	2	10	8	7	11	1	39
Nephritis, nephrotic syndrome, & nephrosis	0	0	0	0	0	1	1	1	3	7	8	21
Congenital anomalies	4	0	1	1	0	1	1	0	0	5	0	13
Conditions originating in the perinatal period	11	1	0	0	0	0	0	0	0	0	0	12
Other internal causes	3	0	1	0	3	6	4	13	35	66	69	200
Ill-defined, unknown or unspecified	0	0	0	0	0	1	1	0	0	0	0	2
External (Accidental and Intentional)												
Motor vehicle crashes (traffic)	0	0	1	8	3	6	3	1	3	4	2	31
Other transport crashes (non-traffic)	0	0	0	2	0	1	0	0	0	0	0	3
Unintentional overdose & poisoning	0	0	0	3	4	6	1	0	1	0	0	15
Unintentional fall	0	0	0	0	0	0	0	1	4	3	7	15
Other unintentional injuries	0	1	0	0	1	1	1	0	1	6	4	15
Suicide	0	0	0	11	3	13	10	3	2	0	1	43
Criminal homicide	0	0	0	1	2	1	0	0	2	0	0	6
Other external or undetermined as to intent	0	0	0	0	1	3	0	0	0	0	0	4
All causes	18	2	4	32	29	84	155	233	531	788	755	2,631

60. Underlying Causes of Death by County of Residence and Age Group ■ New Hampshire: Merrimack County, 1998

Underlying Cause of Death Grouping	Age Group											Total
	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	
Internal (Disease)												
Septicemia	0	0	0	0	0	0	0	2	0	3	1	6
HIV	0	0	0	0	1	0	0	0	0	0	0	1
Other infectious & parasitic diseases	0	0	0	0	0	0	1	0	3	1	2	7
Malignant neoplasms	0	0	0	0	5	7	26	57	75	70	54	294
Benign neoplasms & neoplasms of an unspecified nature	0	0	0	0	0	0	1	0	0	2	0	3
Diabetes mellitus	0	0	0	0	1	0	2	4	8	6	6	27
Nutritional deficiencies	0	0	0	0	0	0	0	0	1	0	2	3
Mental disorders	0	0	0	0	0	0	1	0	2	6	11	20
Alzheimer's	0	0	0	0	0	0	0	0	1	6	7	14
Other hereditary & degenerative central nervous system	0	0	0	0	1	0	0	2	1	5	2	11
Diseases of the heart	0	0	0	0	1	2	13	25	57	81	157	336
Hypertension with or without renal disease	0	0	0	0	1	0	0	0	2	3	1	7
Cerebrovascular diseases	0	0	0	0	1	1	3	3	5	26	36	75
Atherosclerosis	0	0	0	0	0	0	0	0	1	2	3	6
Other diseases of the arteries, arterioles, capillaries	0	0	0	0	0	0	1	4	2	5	9	21
Pneumonia and Influenza	0	0	0	0	0	0	0	1	4	9	28	42
Chronic obstructive pulmonary disease & allied conditions	0	0	0	0	0	1	0	6	21	33	19	80
Chronic liver disease & cirrhosis	0	0	0	0	0	0	0	2	2	0	0	4
Nephritis, nephrotic syndrome, & nephrosis	0	0	0	0	0	2	0	0	3	2	1	8
Congenital anomalies	2	0	0	0	1	0	1	1	0	0	1	6
Conditions originating in the perinatal period	6	0	0	0	0	0	0	0	0	0	0	6
Other internal causes	2	0	1	1	1	2	4	5	13	27	37	93
Ill-defined, unknown or unspecified	0	0	0	0	0	0	1	0	0	0	0	1
External (Accidental and Intentional)												
Motor vehicle crashes (traffic)	0	0	0	0	3	4	2	4	3	2	0	18
Other transport crashes (non-traffic)	0	0	0	0	1	0	0	0	0	0	0	1
Unintentional overdose & poisoning	0	0	0	0	0	4	2	0	0	0	0	6
Unintentional fall	0	0	0	0	0	0	0	2	1	4	6	13
Other unintentional injuries	0	0	0	2	0	2	4	0	2	2	1	13
Suicide	0	0	0	4	3	7	0	1	1	0	0	16
Criminal homicide	0	0	0	0	1	0	0	1	0	0	1	3
All causes	10	0	1	7	21	32	62	120	208	295	385	1,141

Mortality

61. Underlying Causes of Death by County of Residence and Age Group ■ New Hampshire: Rockingham County, 1998

Underlying Cause of Death Grouping	Age Group											Total
	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	
Internal (Disease)												
Septicemia	0	0	0	0	0	2	1	3	0	9	1	16
HIV	0	0	0	0	1	1	0	0	0	0	0	2
Other infectious & parasitic diseases	0	0	1	0	0	0	2	0	3	2	1	9
Malignant neoplasms	0	0	1	3	7	24	49	111	122	128	57	502
Benign neoplasms & neoplasms of an unspecified nature	0	0	0	0	0	1	1	0	1	3	2	8
Diabetes mellitus	0	0	0	0	0	1	1	6	12	12	14	46
Nutritional deficiencies	0	0	0	0	0	0	0	0	0	0	2	2
Mental disorders	0	0	1	0	1	0	3	1	4	10	24	44
Alzheimer's	0	0	0	0	0	0	0	0	0	10	14	24
Other hereditary & degenerative central nervous system	1	0	0	0	0	1	1	3	2	5	6	19
Diseases of the heart	0	0	0	1	0	14	23	51	110	154	188	541
Hypertension with or without renal disease	0	0	0	0	0	0	0	0	0	0	2	2
Cerebrovascular diseases	0	0	0	0	1	2	0	8	7	33	49	101
Atherosclerosis	0	0	0	0	0	0	0	0	0	3	5	8
Other diseases of the arteries, arterioles, capillaries	0	0	0	0	1	1	0	0	2	9	8	21
Pneumonia and Influenza	0	0	0	0	0	0	1	3	8	12	34	58
Chronic obstructive pulmonary disease & allied conditions	0	0	0	0	0	0	2	7	22	49	15	95
Chronic liver disease & cirrhosis	0	0	0	0	0	1	2	3	3	5	0	14
Nephritis, nephrotic syndrome, & nephrosis	0	0	0	0	0	0	2	0	1	5	6	14
Congenital anomalies	1	1	0	0	0	1	1	2	0	0	1	7
Conditions originating in the perinatal period	11	0	0	0	0	0	0	0	0	0	0	11
Other internal causes	3	1	1	1	2	3	11	7	26	30	37	122
External (Accidental and Intentional)												
Motor vehicle crashes (traffic)	0	0	1	6	7	6	2	2	6	2	1	33
Other transport crashes (non-traffic)	0	0	0	0	0	1	1	0	0	0	0	2
Unintentional overdose & poisoning	0	0	0	1	0	4	1	1	0	1	0	8
Unintentional fall	0	0	1	0	0	1	2	1	0	5	3	13
Other unintentional injuries	0	0	0	3	2	2	4	1	1	3	2	18
Suicide	0	0	0	4	5	6	5	4	3	1	1	28
Criminal homicide	0	0	0	0	1	0	0	0	0	0	0	1
Other external or undetermined as to intent	0	0	0	0	1	1	0	0	0	0	0	2
All causes	16	2	6	19	29	73	115	214	333	491	473	1,771

62. Underlying Causes of Death by County of Residence and Age Group ■ New Hampshire: Strafford County, 1998

Underlying Cause of Death Grouping	Age Group											Total
	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	
Internal (Disease)												
Septicemia	0	0	0	0	0	0	0	0	0	1	3	4
Other infectious & parasitic diseases	0	0	0	1	0	1	1	0	0	1	0	4
Malignant neoplasms	0	0	1	0	3	6	23	29	54	71	27	214
Benign neoplasms & neoplasms of an unspecified nature	0	0	0	0	0	1	0	0	0	0	2	3
Diabetes mellitus	0	0	0	0	0	1	0	5	7	12	4	29
Nutritional deficiencies	0	0	0	0	0	0	0	0	0	1	1	2
Mental disorders	0	0	0	0	1	1	0	0	1	8	17	28
Alzheimer's	0	0	0	0	0	0	0	0	1	4	4	9
Other hereditary & degenerative central nervous system	0	0	0	0	0	0	0	1	1	3	1	6
Diseases of the heart	0	0	0	0	1	2	13	17	35	83	65	216
Hypertension with or without renal disease	0	0	0	0	0	0	0	0	0	2	2	4
Cerebrovascular diseases	0	0	0	0	0	0	0	1	4	25	18	48
Atherosclerosis	0	0	0	0	0	0	0	0	0	1	2	3
Other diseases of the arteries, arterioles, capillaries	0	0	0	0	0	0	1	0	8	3	3	15
Pneumonia and Influenza	0	0	0	0	0	0	1	1	2	5	15	24
Chronic obstructive pulmonary disease & allied conditions	0	0	0	0	0	0	1	9	11	18	12	51
Chronic liver disease & cirrhosis	0	0	0	0	0	0	2	2	1	1	0	6
Nephritis, nephrotic syndrome, & nephrosis	0	0	0	0	0	0	0	1	0	5	1	7
Congenital anomalies	3	0	0	0	0	1	0	0	0	1	0	5
Conditions originating in the perinatal period	3	0	0	0	0	0	0	0	0	0	0	3
Other internal causes	0	0	0	0	2	0	4	4	9	13	20	52
Ill-defined, unknown or unspecified	0	0	0	2	0	0	0	0	0	0	1	3
External (Accidental and Intentional)												
Motor vehicle crashes (traffic)	0	0	0	6	3	0	2	1	1	0	0	13
Unintentional overdose & poisoning	0	0	0	1	1	2	0	1	1	1	0	7
Unintentional fall	0	0	0	0	0	0	0	1	1	4	1	7
Other unintentional injuries	0	0	0	0	0	0	0	1	0	0	1	2
Suicide	0	0	0	2	3	3	2	1	0	0	0	11
Criminal homicide	0	0	0	0	1	1	0	0	0	0	0	2
Other external or undetermined as to intent	0	0	0	0	0	0	1	0	0	0	0	1
All causes	6	0	1	12	15	19	51	75	137	263	200	779

Mortality

63. Underlying Causes of Death by County of Residence and Age Group ■ New Hampshire: Sullivan County, 1998

Underlying Cause of Death Grouping	Age Group											Total
	<1	1-4	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	
Internal (Disease)												
Septicemia	0	0	0	0	0	1	0	1	1	0	0	3
Other infectious & parasitic diseases	0	0	0	0	0	0	1	0	0	0	1	2
Malignant neoplasms	0	0	0	0	3	5	10	15	29	34	18	114
Diabetes mellitus	0	0	0	0	0	0	3	3	6	5	3	20
Mental disorders	0	0	0	0	0	0	1	0	3	5	15	24
Alzheimer's	0	0	0	0	0	0	0	0	0	2	2	4
Other hereditary & degenerative central nervous system	0	0	0	0	0	2	1	0	0	2	0	5
Diseases of the heart	0	0	0	0	0	0	3	10	19	28	37	97
Hypertension with or without renal disease	0	0	0	0	0	0	0	1	0	0	0	1
Cerebrovascular diseases	0	0	0	0	0	1	0	3	3	12	6	25
Atherosclerosis	0	0	0	0	0	0	0	0	0	1	0	1
Other diseases of the arteries, arterioles, capillaries	0	0	0	0	0	0	1	1	1	1	0	4
Pneumonia and Influenza	0	0	0	0	0	0	0	0	1	3	7	11
Chronic obstructive pulmonary disease & allied conditions	0	0	0	0	0	0	0	3	4	11	4	22
Chronic liver disease & cirrhosis	0	0	0	0	0	0	1	0	3	0	0	4
Nephritis, nephrotic syndrome, & nephrosis	0	0	0	0	0	0	0	1	0	0	1	2
Congenital anomalies	1	0	0	0	0	0	0	0	0	1	0	2
Conditions originating in the perinatal period	1	0	0	0	0	0	0	0	0	0	0	1
Other internal causes	0	0	0	0	0	1	1	0	4	12	6	24
Ill-defined, unknown or unspecified	0	0	0	0	0	1	0	0	0	0	0	1
External (Accidental and Intentional)												
Motor vehicle crashes (traffic)	0	0	0	1	0	0	0	0	0	0	1	2
Other transport crashes (non-traffic)	0	0	0	0	0	0	0	0	0	1	0	1
Unintentional overdose & poisoning	0	0	0	0	0	1	0	0	0	0	0	1
Unintentional fall	0	0	0	0	0	0	0	0	0	4	4	8
Other unintentional injuries	0	0	1	0	0	0	0	1	2	0	0	4
Suicide	0	0	0	1	1	0	0	0	0	0	0	2
All causes	2	0	1	2	4	12	22	39	76	122	105	385

64. Resident Major Underlying Causes of Death by County ■ New Hampshire, 1998

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65. Comparison of Underlying Causes of Death to Mentions of Contributing Causes on Death Certificates ■ New Hampshire, 1998

Causes of Death	Underlying Cause	Mentions	Ratio
<i>Internal (Disease)</i>			
Septicemia	55	320	5.82
HIV	13	18	1.38
Other infectious & parasitic diseases	53	101	1.91
Malignant neoplasms	2,427	2,726	1.12
Benign neoplasms & neoplasms of an unspecified nature	42	69	1.64
Diabetes mellitus	265	892	3.37
Nutritional deficiencies	40	242	6.05
Mental disorders	257	1,037	4.04
Alzheimer's	126	218	1.73
Other hereditary & degenerative central nervous system	126	351	2.79
Diseases of the heart	2,826	4,379	1.55
Hypertension with or without renal disease	43	707	16.44
Cerebrovascular diseases	621	1,022	1.65
Atherosclerosis	66	316	4.79
Other Diseases of the arteries, arterioles, capillaries	151	275	1.82
Pneumonia and Influenza	296	837	2.83
Chronic obstructive pulmonary disease & allied conditions	561	1,163	2.07
Chronic liver disease & cirrhosis	105	168	1.60
Nephritis, nephrotic syndrome, & nephrosis	71	528	7.44
Congenital anomalies	45	68	1.51
Conditions originating in the perinatal period	34	42	1.24
Other internal causes	721	3,275	4.54
Ill-defined, unknown or unspecified	10	140	14.00
<i>External (Accidental and Intentional)</i>			
Motor vehicle crashes (traffic)	139	140	1.01
Other transport crashes (non-traffic)	14	19	1.36
Unintentional overdose & poisoning	44	53	1.20
Unintentional fall	81	124	1.53
Other unintentional injuries	76	284	3.74
Suicide	154	162	1.05
Criminal homicide	19	19	1.00
Other external or undetermined as to intent	9	24	2.67

66. Resident Causes of Death by Age Group and Gender, Ordered by Total Number of Deaths ■ New Hampshire, 1998

Age	Underlying Cause of Death	Total Deaths	Percent of Deaths	Male	Female
<1	Conditions originating in the perinatal period	33	-	22	11
	Congenital anomalies	15	-	11	4
	Motor vehicle crashes (traffic)	1	-	1	0
	Other hereditary & degenerative central nervous system	2	-	1	1
	Other internal causes	11	-	6	5
	All causes for age group	62	100	41	21
1-4	Conditions originating in the perinatal period	1	-	0	1
	Congenital anomalies	1	-	0	1
	Other unintentional injuries	1	-	0	1
	Other internal causes	1	-	0	1
	Other transport crashes (non-traffic)	1	-	0	1
	All causes for age group	5	100	0	5
5-14	Malignant neoplasms	5	-	4	1
	Motor vehicle crashes (traffic)	4	-	3	1
	Other internal causes	3	-	3	0
	Unintentional fall	2	-	2	0
	Other unintentional injuries	2	-	2	0
	Congenital anomalies	1	-	1	0
	Criminal homicide	1	-	1	0
	Mental disorders	1	-	1	0
	Other infectious & parasitic diseases	1	-	1	0
	Suicide	1	-	0	1
	All causes for age group	21	100	18	3
15-24	Motor vehicle crashes (traffic)	37	34.6	26	11
	Suicide	33	30.8	28	5
	Malignant neoplasms	9	8.4	6	3
	Other unintentional injuries	7	6.5	7	0
	Unintentional overdose & poisoning	5	4.7	4	1
	Other internal causes	5	4.7	3	2
	Ill-defined, unknown or unspecified	3	2.8	3	0
	Diseases of the heart	2	1.9	1	1
	Other infectious & parasitic diseases	2	1.9	2	0
	Other transport crashes (non-traffic)	2	1.9	2	0
	Congenital anomalies	1	0.9	1	0
	Criminal homicide	1	0.9	0	1
	All causes for age group	107	100	83	24

"-" indicates that a percentage could not be calculated as percentages based on <100 events do not meet the standard of reliability.

66. Resident Causes of Death by Age Group and Gender ■ New Hampshire, 1998 (continued)

Age	Underlying Cause of Death	Total Deaths	Percent of Deaths	Male	Female
25-34	Suicide	31	22.8	25	6
	Malignant neoplasms	28	20.6	12	16
	Motor vehicle crashes (traffic)	21	15.4	14	7
	Other internal causes	8	5.9	4	4
	Criminal homicide	7	5.1	5	2
	Unintentional overdose & poisoning	6	4.4	3	3
	Diseases of the heart	5	3.7	3	2
	Diabetes mellitus	4	2.9	2	2
	Other unintentional injuries	4	2.9	3	1
	Congenital anomalies	3	2.2	2	1
	HIV	3	2.2	2	1
	Other Diseases of the arteries, arterioles, capillaries	3	2.2	2	1
	Cerebrovascular diseases	2	1.5	2	0
	Mental disorders	2	1.5	2	0
	Other external or undetermined as to intent	2	1.5	1	1
	Other hereditary & degenerative central nervous system	2	1.5	0	2
	Benign neoplasms & neoplasms of an unspecified nature	1	0.7	0	1
	Chronic liver disease & cirrhosis	1	0.7	0	1
	Hypertension with or without renal disease	1	0.7	1	0
	Other transport crashes (non-traffic)	1	0.7	1	0
	Pneumonia and Influenza	1	0.7	1	0
	All causes for age group	136	100	85	51
35-44	Malignant neoplasms	85	27.7	44	41
	Diseases of the heart	47	15.3	39	8
	Suicide	40	13.0	32	8
	Motor vehicle crashes (traffic)	20	6.5	15	5
	Unintentional overdose & poisoning	19	6.2	16	3
	Other internal causes	17	5.5	10	7
	Diabetes mellitus	7	2.3	5	2
	HIV	7	2.3	6	1
	Other unintentional injuries	7	2.3	3	4
	Chronic liver disease & cirrhosis	6	2.0	6	0
	Cerebrovascular diseases	5	1.6	2	3
	Other external or undetermined as to intent	5	1.6	5	0
	Other infectious & parasitic diseases	5	1.6	4	1
	Other hereditary & degenerative central nervous system	5	1.6	1	4
	Criminal homicide	4	1.3	1	3
	Mental disorders	4	1.3	3	1
	Nephritis, nephrotic syndrome, & nephrosis	4	1.3	2	2
	Congenital anomalies	3	1.0	1	2
	Other transport crashes (non-traffic)	3	1.0	3	0
	Septicemia	3	1.0	3	0
	Unintentional fall	2	0.7	2	0
	Benign neoplasms & neoplasms of an unspecified nature	2	0.7	2	0
	Chronic obstructive pulmonary disease & allied conditions	2	0.7	0	2
	Ill-defined, unknown or unspecified	2	0.7	0	2
	Other Diseases of the arteries, arterioles, capillaries	2	0.7	2	0
	Pneumonia and Influenza	1	0.3	1	0
	All causes for age group	307	100	208	99

66. Resident Causes of Death by Age Group and Gender ■ New Hampshire, 1998
(continued)

Age	Underlying Cause of Death	Total Deaths	Percent of Deaths	Male	Female
45-54	Malignant neoplasms	224	41.7	109	115
	Diseases of the heart	118	22.0	94	24
	Other internal causes	28	5.2	22	6
	Suicide	22	4.1	16	6
	Chronic liver disease & cirrhosis	18	3.4	12	6
	Other hereditary & degenerative central nervous system	13	2.4	6	7
	Diabetes mellitus	12	2.2	5	7
	Chronic obstructive pulmonary disease & allied conditions	11	2.0	6	5
	Motor vehicle crashes (traffic)	10	1.9	8	2
	Other unintentional injuries	10	1.9	8	2
	Other infectious & parasitic diseases	9	1.7	4	5
	Cerebrovascular diseases	8	1.5	6	2
	Mental disorders	8	1.5	5	3
	Unintentional overdose & poisoning	6	1.1	3	3
	Other Diseases of the arteries, arterioles, capillaries	6	1.1	2	4
	Benign neoplasms & neoplasms of an unspecified nature	5	0.9	2	3
	Unintentional fall	4	0.7	4	0
	Congenital anomalies	4	0.7	2	2
	Septicemia	4	0.7	2	2
	HIV	3	0.6	1	2
	Ill-defined, unknown or unspecified	3	0.6	3	0
	Nephritis, nephrotic syndrome, & nephrosis	3	0.6	1	2
	Pneumonia and Influenza	3	0.6	3	0
	Other external or undetermined as to intent	2	0.4	2	0
	Other transport crashes (non-traffic)	2	0.4	2	0
	Criminal homicide	1	0.2	1	0
	All causes for age group	537	100	329	208
55-64	Malignant neoplasms	390	41.5	221	169
	Diseases of the heart	237	25.2	178	59
	Chronic obstructive pulmonary disease & allied conditions	60	6.4	28	32
	Other internal causes	48	5.1	29	19
	Cerebrovascular diseases	32	3.4	18	14
	Diabetes mellitus	30	3.2	17	13
	Chronic liver disease & cirrhosis	23	2.4	15	8
	Other hereditary & degenerative central nervous system	17	1.8	9	8
	Motor vehicle crashes (traffic)	14	1.5	9	5
	Suicide	13	1.4	9	4
	Other Diseases of the arteries, arterioles, capillaries	10	1.1	9	1
	Pneumonia and Influenza	10	1.1	7	3
	Septicemia	8	0.9	7	1
	Mental disorders	7	0.7	6	1
	Other infectious & parasitic diseases	7	0.7	4	3
	Congenital anomalies	6	0.6	4	2
	Unintentional fall	5	0.5	4	1
	Other unintentional injuries	5	0.5	4	1
	Unintentional overdose & poisoning	3	0.3	3	0
	Atherosclerosis	3	0.3	2	1
	Nephritis, nephrotic syndrome, & nephrosis	3	0.3	1	2
	Benign neoplasms & neoplasms of an unspecified nature	2	0.2	0	2
	Criminal homicide	2	0.2	2	0
	Hypertension with or without renal disease	2	0.2	2	0
	Alzheimer's	1	0.1	0	1
	Other transport crashes (non-traffic)	1	0.1	0	1
	All causes for age group	939	100	588	351

66. Resident Causes of Death by Age Group and Gender ■ New Hampshire, 1998
(continued)

Age	Underlying Cause of Death	Total Deaths	Percent of Deaths	Male	Female
65-74	Malignant neoplasms	670	36.2	379	291
	Diseases of the heart	528	28.5	329	199
	Chronic obstructive pulmonary disease & allied conditions	150	8.1	81	69
	Other internal causes	126	6.8	68	58
	Cerebrovascular diseases	68	3.7	43	25
	Diabetes mellitus	69	3.7	28	41
	Other Diseases of the arteries, arterioles, capillaries	36	1.9	20	16
	Pneumonia and Influenza	34	1.8	17	17
	Chronic liver disease & cirrhosis	26	1.4	15	11
	Other hereditary & degenerative central nervous system	22	1.2	15	7
	Mental disorders	21	1.1	10	11
	Motor vehicle crashes (traffic)	16	0.9	12	4
	Nephritis, nephrotic syndrome, & nephrosis	11	0.6	8	3
	Other unintentional injuries	11	0.6	8	3
	Other infectious & parasitic diseases	11	0.6	5	6
	Alzheimer's	9	0.5	3	6
	Unintentional fall	8	0.4	5	3
	Suicide	9	0.4	7	2
	Benign neoplasms & neoplasms of an unspecified nature	7	0.4	4	3
	Atherosclerosis	6	0.3	4	2
	Hypertension with or without renal disease	4	0.2	3	1
	Other transport crashes (non-traffic)	3	0.2	2	1
	Unintentional overdose & poisoning	2	0.1	2	0
	Criminal homicide	2	0.1	1	1
	Nutritional deficiencies	2	0.1	1	1
	Septicemia	2	0.1	2	0
	All causes for age group	1,853	100	1,072	781
75-84	Diseases of the heart	856	30.6	436	420
	Malignant neoplasms	685	24.5	354	331
	Cerebrovascular diseases	225	8.0	96	129
	Chronic obstructive pulmonary disease & allied conditions	224	8.0	104	120
	Other internal causes	223	8.0	104	119
	Pneumonia and Influenza	85	3.0	46	39
	Diabetes mellitus	83	3.0	35	48
	Mental disorders	73	2.6	31	42
	Alzheimer's	48	1.7	19	29
	Other Diseases of the arteries, arterioles, capillaries	42	1.5	25	17
	Other hereditary & degenerative central nervous system	37	1.3	26	11
	Unintentional fall	31	1.1	15	16
	Chronic liver disease & cirrhosis	26	0.9	14	12
	Septicemia	24	0.9	12	12
	Nephritis, nephrotic syndrome, & nephrosis	22	0.8	9	13
	Atherosclerosis	21	0.8	8	13
	Benign neoplasms & neoplasms of an unspecified nature	18	0.6	7	11
	Other unintentional injuries	17	0.6	10	7
	Hypertension with or without renal disease	14	0.5	6	8
	Motor vehicle crashes (traffic)	11	0.4	4	7
	Other infectious & parasitic diseases	11	0.4	9	2
	Congenital anomalies	8	0.3	3	5
	Nutritional deficiencies	7	0.3	3	4
	Unintentional overdose & poisoning	3	0.1	1	2
	Suicide	3	0.1	3	0
	Other transport crashes (non-traffic)	1	0.0	0	1
	All causes for age group	2,798	100	1,380	1,418

66. Resident Causes of Death by Age Group and Gender ■ New Hampshire, 1998
(continued)

Age	Underlying Cause of Death	Total Deaths	Percent of Deaths	Male	Female
85+	Diseases of the heart	1,033	37.9	277	756
	Malignant neoplasms	331	12.2	123	208
	Cerebrovascular diseases	281	10.3	72	209
	Other internal causes	251	9.2	86	165
	Pneumonia and Influenza	162	5.9	54	108
	Mental disorders	141	5.2	23	118
	Chronic obstructive pulmonary disease & allied conditions	114	4.2	48	66
	Alzheimer's	68	2.5	16	52
	Diabetes mellitus	60	2.2	27	33
	Other Diseases of the arteries, arterioles, capillaries	52	1.9	18	34
	Atherosclerosis	36	1.3	6	30
	Nutritional deficiencies	31	1.1	4	27
	Unintentional fall	29	1.1	11	18
	Nephritis, nephrotic syndrome, & nephrosis	28	1.0	11	17
	Other hereditary & degenerative central nervous system	28	1.0	12	16
	Hypertension with or without renal disease	22	0.8	6	16
	Septicemia	14	0.5	4	10
	Other unintentional injuries	11	0.4	4	7
	Benign neoplasms & neoplasms of an unspecified nature	7	0.3	2	5
	Other infectious & parasitic diseases	7	0.3	3	4
	Chronic liver disease & cirrhosis	5	0.2	2	3
	Motor vehicle crashes (traffic)	5	0.2	1	4
	Congenital anomalies	3	0.1	2	1
	Ill-defined, unknown or unspecified	2	0.1	1	1
	Suicide	2	0.1	1	1
	Criminal homicide	1	0.0	0	1
	All causes for age group	2,724	100	814	1,910
All causes for all ages		9,489		4,618	4,871

Mortality

67. Selected Indicators Related to Resident Age at Death by Underlying Cause and Gender ■ New Hampshire, 1998

Cause of Death Grouping	Deaths			Average Age at Death			Deaths Under Age 65			Years of Life Lost Under Age 65			Percentage of Deaths Under Age 65		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Internal (Disease)															
Septicemia	55	30	25	74.3	69.8	79.8	15	12	3	176	140	36	-	-	-
HIV	13	9	4	38.9	38.6	39.8	13	9	4	339	238	101	-	-	-
Other infectious & parasitic diseases	53	32	21	64.2	62.1	67.5	24	15	9	440	330	110	-	-	-
Malignant neoplasms	2,427	1,252	1,175	70.0	69.1	70.9	741	396	345	8,832	4,541	4,291	30.5	31.6	29.4
Benign neoplasms and unspecified nature	42	17	25	72.0	70.0	73.3	10	4	6	181	77	104	-	-	-
Diabetes mellitus	265	119	146	73.6	72.4	74.7	53	29	24	631	344	287	20.0	24.4	16.4
Nutritional deficiencies	40	8	32	89.3	84.6	90.5	0	0	0	0	0	0	-	-	-
Mental disorders	257	81	176	82.7	74.6	86.4	22	17	5	387	316	71	8.6	21.0	2.8
Alzheimer's	126	38	88	85.0	82.9	85.9	1	0	1	5	0	5	0.8	0.0	1.1
Other hereditary & degenerative CNS	126	70	56	70.6	71.7	69.3	39	17	22	612	230	382	30.6	24.6	38.2
Diseases of the heart	2,826	1,357	1,469	78.2	73.2	82.8	409	315	94	4,447	3,508	939	14.5	23.2	6.4
Hypertension with or without renal disease	43	18	25	83.1	76.8	87.7	3	3	0	46	46	0	-	-	-
Cerebrovascular diseases	621	239	382	81.8	77.8	84.3	47	28	19	484	322	162	7.6	11.7	5.0
Atherosclerosis	66	20	46	84.3	79.0	86.7	3	2	1	7	4	3	-	-	-
Other Dis. of the arteries, arterioles, capillaries	151	78	73	76.6	74.1	79.3	21	15	6	287	189	98	13.9	19.2	8.2
Pneumonia and Influenza	296	129	167	84.0	81.0	86.3	15	12	3	154	129	25	5.1	9.3	1.8
COPD & allied conditions	561	267	294	76.3	75.5	76.9	73	34	39	448	201	247	13.0	12.7	13.3
Chronic liver disease & cirrhosis	105	64	41	65.4	63.3	68.6	48	33	15	554	403	151	45.7	51.6	36.6
Nephritis, nephrotic syndrome, & nephrosis	71	32	39	78.5	76.7	79.9	10	4	6	170	86	84	-	-	-
Congenital anomalies	45	27	18	38.0	32.9	45.7	34	22	12	1,420	966	454	-	-	-
Conditions originating in the perinatal period	34	22	12	0.0	0.0	0.1	34	22	12	2,209	1,430	779	-	-	-
Other internal causes	721	335	386	75.7	72.2	78.7	121	77	44	2,538	1,567	971	16.8	23.0	11.4
Ill-defined, unknown or unspecified	10	7	3	45.8	40.9	57.3	8	6	2	241	189	52	-	-	-
External (Accidental and Intentional)															
Motor vehicle crashes (traffic)	139	93	46	42.6	39.9	47.9	107	76	31	3,481	2,476	1,005	77.0	81.7	67.4
Other transport crashes (non-traffic)	14	10	4	46.9	44.4	53.3	10	8	2	283	220	63	-	-	-
Unintentional overdose & poisoning	44	32	12	42.8	42.0	44.8	39	29	10	1,032	755	277	-	-	-
Unintentional fall	81	43	38	77.1	71.6	83.4	13	12	1	249	242	7	-	-	-
Other unintentional injuries	76	50	26	59.4	55.2	67.5	37	28	9	1,008	773	235	-	-	-
Suicide	154	121	33	39.1	38.5	41.3	140	110	30	4,118	3,307	811	90.9	90.9	90.9
Criminal homicide	18	10	8	43.2	41.8	45.0	15	9	6	434	240	194	-	-	-
Other external or undetermined as to intent	9	8	1	39.2	40.4	30.0	9	8	1	232	197	35	-	-	-
All causes	9,489	4,618	4,871	74.3	69.8	79.8	2,113	1,351	762	35,410	23,431	11,979	22.3	29.3	15.6

"-" indicates that a percentage could not be calculated as percentages based on <100 events do not meet the standard of reliability.

68. Resident Methods of Suicide by Gender ■ New Hampshire, 1998

Method	Male Deaths	Female Deaths	Total Deaths
Firearm	73	11	84
Hanging/Suffocation	21	6	27
Poison – Drug	9	13	22
Poison – Gas	13	1	14
Cutting or piercing instrument	3	0	3
Other	2	2	4
All methods	121	33	154

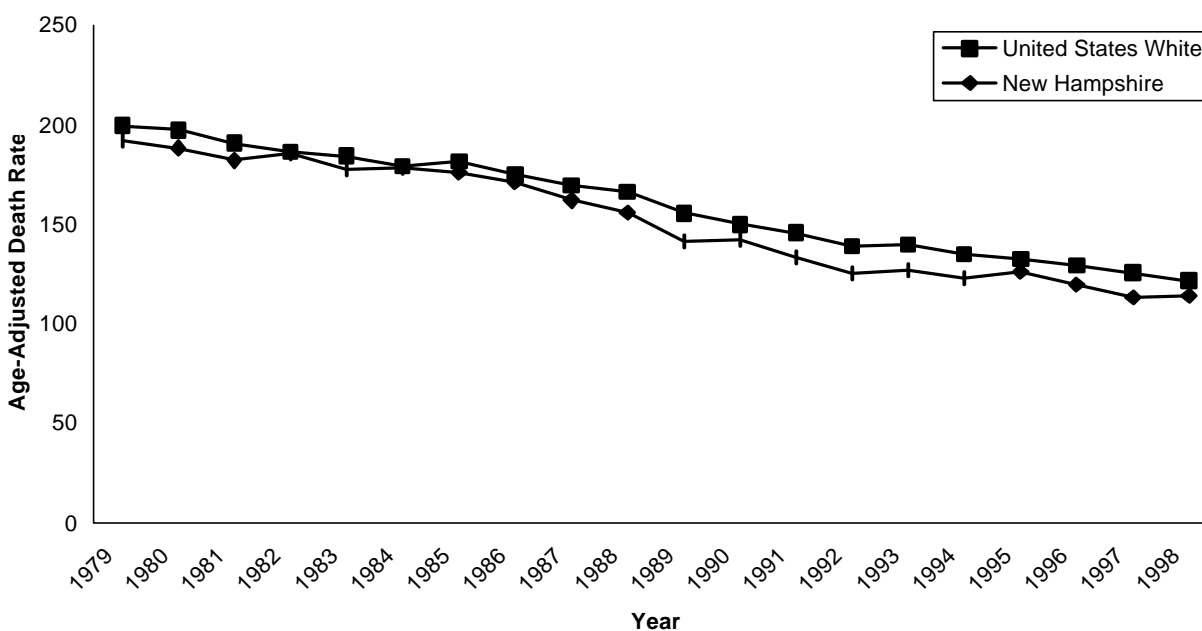
69. Resident Methods of Suicide by Age Group ■ New Hampshire, 1998

Method	5-14	15-24	25-34	35-44	45-54	55-64	65-74	75-84	85+	Total
Firearm	0	21	17	21	9	5	7	3	1	84
Hanging/Suffocation	1	4	5	8	5	3	1	0	0	27
Poison – Drug	0	4	5	4	5	3	0	0	1	22
Poison – Gas	0	2	3	5	3	1	0	0	0	14
Cutting or piercing instrument	0	0	1	1	0	1	0	0	0	3
Other	0	2	0	1	0	0	1	0	0	4
All methods	1	33	31	40	22	13	9	3	2	154

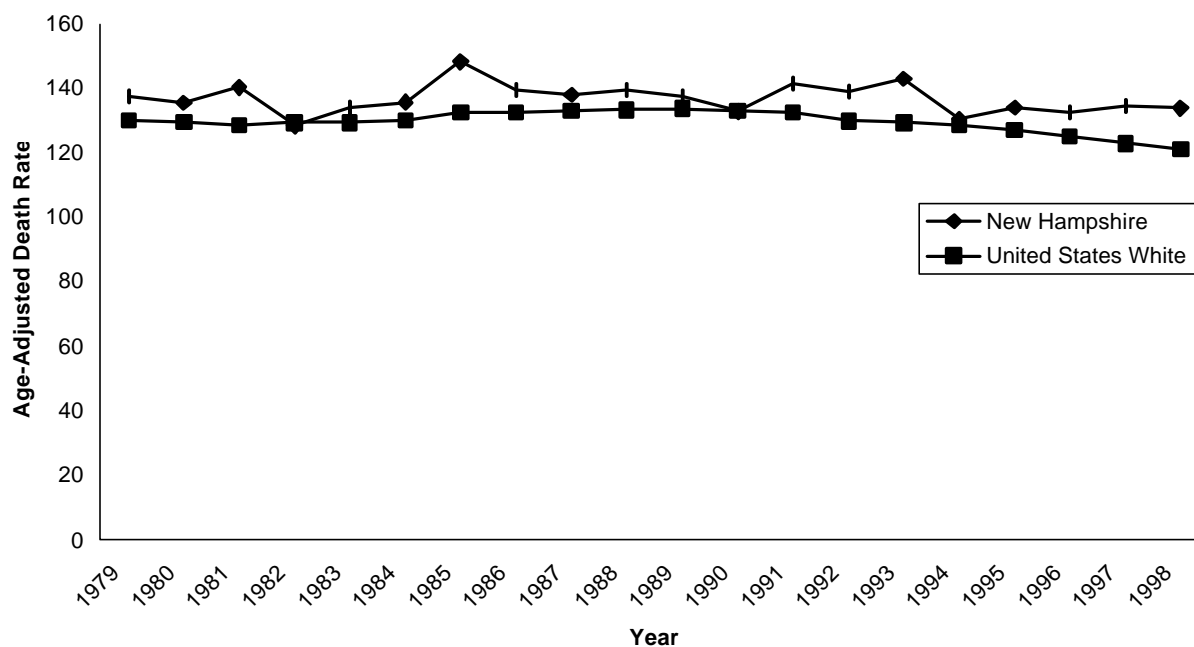
70. Deaths Involving Firearms by Manner of Death and Year ■ New Hampshire, 1994-1998

Manner of Death	1994	1995	1996	1997	1998	Total
Suicide	71	82	83	69	84	389
Homicide	14	7	10	10	4	45
Accident	6	1	1	3	0	11
Undetermined	0	0	1	0	0	1
Deaths	91	90	95	82	88	446

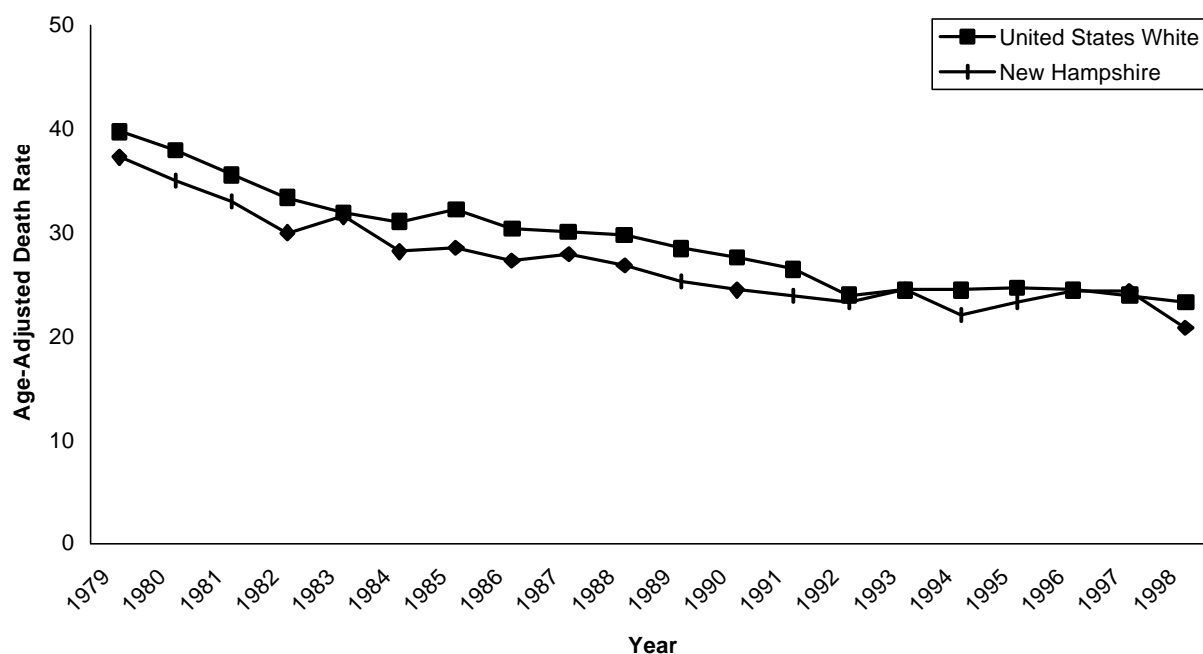
71. Mortality Trends: Age-Adjusted Diseases of the Heart Death Rate ■ New Hampshire and United States White, 1979-1998



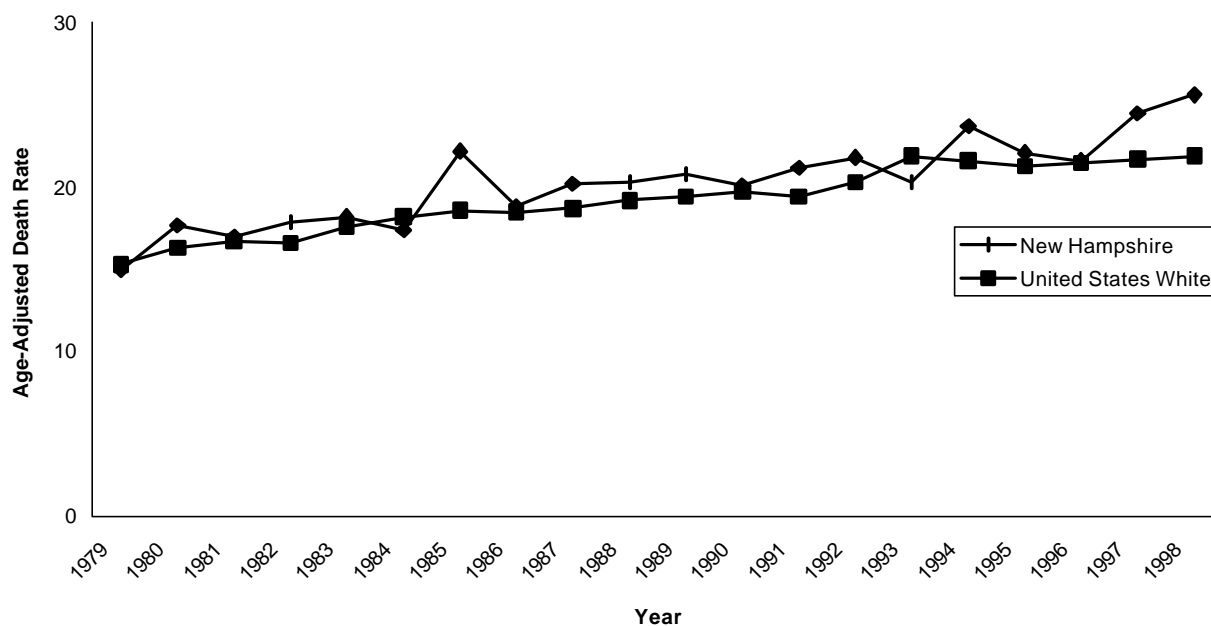
72. Mortality Trends: Age-Adjusted Malignant Neoplasm Death Rate ■ New Hampshire and United States White, 1979-1998



73. Mortality Trends: Age-Adjusted Cerebrovascular Disease Death Rate ■ New Hampshire and United States White, 1979-1998



74. Mortality Trends: Age-Adjusted Chronic Obstructive Pulmonary Disease (COPD) Disease Death Rate ■ New Hampshire and United States White, 1979-1998



INFANT MORTALITY

The number of New Hampshire resident infant deaths declined by one event from 63 in 1997 to 62 in 1998. This caused a slight decrease in the infant mortality rate, which is now 4.3 per 1,000 live births, down from 4.4 in 1997. Both the current number of infant deaths and the infant mortality rate represent the lowest points on record and are 50% lower than figures from just ten years ago. The 1998 state infant mortality rate of 4.3 is 28.3% below the US white rate of 6.0 per 1,000 live births. This statistic ranks New Hampshire as maintaining the lowest infant mortality rates in the nation.⁴⁶

The number of neonatal deaths (under 28 days of age) rose slightly from 46 in 1997 to 48 in 1998, while post-neonatal deaths (28 days to 11 months of age) decreased from 17 to 14. All of these 14 post-neonatal deaths occurred before the end of the sixth month of life. While significant decreases have been observed in both neonatal and post-neonatal infant deaths and death rates over the past ten years, the most significant improvements have occurred in the post-neonatal period. The number of post-neonatal deaths has decreased by a factor of four and that rate has decreased by 70%. This means that for the first time, the post-neonatal mortality rate is slightly below 1.0 death per 1,000 births. The number of neonatal deaths has been cut in half and that rate has decreased by one-third over the past ten years.

In 1998, the largest cause of death category, conditions of the perinatal period, accounted for slightly more than half of all infant deaths, with a five year average mortality rate of 226.3 per 100,000 live births. This represents a slight decrease from the previous five year period, 1993 to 1997, when the rate was 227.4 per 100,000 live births. Congenital anomalies represent the next major category and these conditions were responsible for 15 infant deaths in 1998. This death rate has decreased from 132.6 per 100,000 live births between 1993 and 1997 to 127.6 per 100,000 live births between 1994 and 1998. For neonatal deaths, conditions of the perinatal period are the leading cause of death. These conditions were responsible for 65.4% of the neonatal deaths during the five-year period 1994-1998. Congenital anomalies contributed to another 30.3% of neonatal deaths. Congenital anomalies also contributed to 22.5% of the post-neonatal deaths, while 13.7% of post-neonatal deaths were due to conditions of the perinatal period.

Similar to the rest of the country, New Hampshire has experienced a dramatic decline in the number of cases and the death rate from sudden infant death syndrome (SIDS) over the past several years.⁴⁷ In 1998, there were seven SIDS deaths, a slight increase from the five cases recorded in the previous year. The number of SIDS deaths is still less than half what it was in 1995. SIDS deaths occur most frequently during the post-neonatal period (28 days to 11 months of age). More than 75% of the SIDS deaths over the past five years occurred in this age range.

Due to the small number of infant deaths occurring annually within the state, most tables are for the five-year period, 1994-1998. For comparison to US white rates, the midpoint of those years, 1996, is used.⁴⁸

75. Underlying Causes of Death Groupings and Defining ICD-9 Code Ranges for Reported Infant Mortality⁴⁹

Cause of Death Grouping	ICD-9 Code
<i>Infections</i>	001, 007, 008-009, 010-032, 034-035 037, 039-041, 042-044, 045-079 080-088, 091-139
<i>Diseases of the nervous system and sense organs</i>	323-389
<i>Congenital Anomalies:</i>	740, 741, 742.0-742.2, 742.3
Anencephalus and similar anomalies	742.4-742.9, 743, 744, 745-746
Heart	747, 748, 749-751, 752-753
Other circulatory	754-756, 757, 758.0, 758.1, 758.9, 759
Respiratory	
Genitourinary	
Musculoskeletal	
Chromosomal	
Central nervous system and eye	
Other and unspecified congenital anomalies	
<i>Certain conditions originating in the perinatal period:</i>	760, 761, 762, 763, 764, 765, 766, 767,
Maternal complications of pregnancy	768, 768.2-768.4, 768.5-768.9, 769, 770,
Complications of the placenta, cord, and membranes	771, 772, 773-774, 775.0-775.1, 776.0,
Disorders relating to short gestation and unspecified low birth weight	775.2-775.9, 776.1-779
Respiratory distress syndrome	
Other respiratory conditions of the newborn	
Infections specific to the perinatal period	
Other perinatal conditions	
<i>Symptoms, signs, and ill-defined conditions:</i>	780-797, 798.0, 798.1-799
Sudden Infant Death Syndrome	
All other ill-defined conditions	
<i>Accidents and adverse effects</i>	E800-E910, E911-E912, E913 E914-E949
<i>Homicide</i>	E960-E966, E967, E968-E969
<i>All other causes</i>	Residual 001-E999

76. Resident Infant Mortalities by Underlying Cause and Age Group ■ New Hampshire, 1994-1998

Cause of Death Grouping	Age Group							Total	Average Age in Days
	<1 Hour	<1 Day ⁵⁰	1-6 Days	7-27 Days	1-3 Months	4-6 Months	7-11 Months		
Infections	0	0	0	2	1	0	1	4	64.8
Diseases of the nervous system and sense organs	0	0	0	1	1	1	4	7	132.6
Congenital Anomalies	16	25	18	11	7	9	7	93	36.3
<i>Anencephalus and similar anomalies</i>	2	3	0	0	0	0	0	5	0.4
<i>Heart</i>	1	0	5	6	1	3	4	20	63.3
<i>Other circulatory</i>	1	1	0	1	0	0	1	4	86.5
<i>Respiratory</i>	2	8	4	0	0	1	0	15	9.8
<i>Genitourinary</i>	0	1	1	0	0	0	0	2	1.0
<i>Musculoskeletal</i>	0	3	0	0	2	2	0	7	50.0
<i>Chromosomal</i>	5	2	5	1	1	0	0	14	8.7
<i>Central nervous system and eye</i>	2	3	2	2	2	2	2	15	62.3
<i>Other and unspecified congenital anomalies</i>	3	4	1	1	1	1	0	11	19.0
Certain conditions originating in the perinatal period	47	67	25	12	5	3	6	165	12.5
<i>Maternal complications of pregnancy</i>	9	14	1	1	0	0	0	25	0.8
<i>Complications of the placenta, cord, and membranes</i>	9	5	1	0	0	0	0	15	0.4
<i>Disorders relating to short gestation / low birth weight</i>	16	18	2	0	0	1	0	37	4.7
<i>Respiratory distress syndrome</i>	0	7	6	2	1	0	0	16	3.8
<i>Other respiratory conditions of the newborn</i>	4	14	7	3	4	0	5	37	36.5
<i>Infections specific to the perinatal period</i>	1	1	0	3	0	0	0	5	11.6
<i>Other perinatal conditions</i>	8	8	8	3	0	2	1	30	13.0
Symptoms, signs, and ill-defined conditions	4	0	2	7	21	13	12	59	71.7
<i>Sudden Infant Death Syndrome</i>	4	0	2	6	19	11	11	53	67.2
<i>All other ill-defined conditions</i>	0	0	0	1	2	2	1	6	105.1
Accidents and adverse effects	0	0	1	0	0	1	6	8	189.6
Homicide	0	0	0	0	1	1	0	2	58.0
All other causes	2	3	3	8	2	1	6	25	63.7
Unknown	1	1	0	1	1	0	0	4	18.5
All causes	70	96	49	42	39	29	42	367	38.5

Infant Mortality

77. Resident Infant Mortalities and Rates per 100,000 by Underlying Cause and Year ■ New Hampshire, 1994-1998

Cause of Death Grouping	1994	1995	1996	1997	1998	Total NH Rate ⁵¹	US White	
Infections	2	0	1	1	0	4	-	5.3
Diseases of the nervous system and sense organs	0	4	0	1	2	7	-	9.5
Congenital anomalies	25	20	16	17	15	93	127.6	164.0
<i>Anencephalus and similar anomalies</i>	0	2	0	2	1	5	-	0.0
<i>Heart</i>	11	1	4	3	1	20	27.4	27.5
<i>Other circulatory</i>	0	0	0	3	1	4	-	0.0
<i>Respiratory</i>	4	5	3	1	2	15	-	20.7
<i>Genitourinary</i>	0	0	0	2	0	2	-	0.0
<i>Musculoskeletal</i>	1	3	0	2	1	7	-	0.0
<i>Chromosomal</i>	2	3	3	2	4	14	-	20.7
<i>Central nervous system and eye</i>	3	4	4	1	3	15	-	20.7
<i>Other and unspecified congenital anomalies</i>	4	2	2	1	2	11	-	20.7
Certain conditions originating in the perinatal period	39	27	35	31	33	165	226.3	332.9
<i>Maternal complications of pregnancy</i>	5	5	5	3	7	25	34.3	34.4
<i>Complications of the placenta, cord, and membranes</i>	0	4	8	2	1	15	-	55.1
<i>Disorders relating to short gestation / low birth weight</i>	6	6	5	9	11	37	50.8	34.4
<i>Respiratory distress syndrome</i>	4	1	4	5	2	16	-	27.5
<i>Other respiratory conditions of the newborn</i>	14	3	7	8	5	37	50.8	48.2
<i>Infections specific to the perinatal period</i>	0	0	2	1	2	5	-	13.8
<i>Other perinatal conditions</i>	10	8	4	3	5	30	41.2	27.5
Symptoms, signs and ill-defined conditions	17	16	9	9	8	59	80.9	99.8
<i>Sudden Infant Death Syndrome</i>	17	15	9	5	7	53	72.7	62.0
<i>All other ill-defined conditions</i>	0	1	0	5	1	29	8.2	0.0
Accidents and adverse effects	2	2	2	0	1	7	-	13.8
Homicide	0	1	1	0	0	2	-	6.9
All other causes	4	7	8	3	3	25	34.3	55.1
Unknown	4	0	0	0	0	4	-	0.0
All causes	93	77	72	63	62	367	503.5	495.9
Births	15,092	14,576	14,520	14,275	14,433	72,896		
Mortality rate per 100,000	616.2	528.3	495.9	441.3	429.6	503.5		

"-" indicates that a rate could not be calculated as rates based on <20 events do not meet the standard of reliability.

78. Resident Infant Mortalities by Underlying Cause and County ■ New Hampshire, 1994-1998

	Belknap	Carroll	Cheshire	Coos	Grafton	Hillsborough	Merrimack	Rockingham	Strafford	Sullivan	Total
Infections	0	0	2	1	1	0	0	0	0	0	4
Diseases of the nervous system and sense organs	1	1	1	0	0	1	0	1	2	0	7
Congenital anomalies	5	3	9	6	4	32	8	11	12	3	93
<i>Anencephalus and similar anomalies</i>	0	0	3	0	0	2	0	0	0	0	5
<i>Heart</i>	1	1	0	2	1	7	1	1	5	1	20
<i>Other circulatory</i>	0	0	0	0	0	1	0	0	2	1	4
<i>Respiratory</i>	0	0	2	0	1	5	2	4	1	0	15
<i>Genitourinary</i>	1	0	0	0	0	0	0	0	1	0	2
<i>Musculoskeletal</i>	2	0	0	1	1	2	0	1	0	0	7
<i>Chromosomal</i>	0	1	1	2	0	6	1	1	1	1	14
<i>Central nervous system and eye</i>	0	1	1	0	0	6	3	2	2	0	15
<i>Other and unspecified congenital anomalies</i>	1	0	2	1	1	3	1	2	0	0	11
Certain perinatal conditions	4	2	5	3	7	62	17	44	15	6	165
<i>Maternal complications of pregnancy</i>	2	0	1	0	0	11	2	6	2	1	25
<i>Complications of the placenta, cord, and membranes</i>	0	0	0	0	1	4	1	8	1	0	15
<i>Disorders relating to short gestation / low birth weight</i>	0	1	1	0	2	15	3	10	3	2	37
<i>Respiratory distress syndrome</i>	0	0	0	1	0	7	0	6	2	0	16
<i>Other respiratory conditions of the newborn</i>	2	0	1	2	2	13	4	6	6	1	37
<i>Infections specific to the perinatal period</i>	0	0	0	0	0	2	2	0	0	1	5
<i>Other perinatal conditions</i>	0	1	2	0	2	10	5	8	1	1	30
Symptoms, signs, and other ill-defined conditions	3	1	2	1	3	23	9	8	5	4	59
<i>Sudden Infant Death Syndrome</i>	3	1	2	1	3	21	7	6	5	4	53
<i>All other ill-defined conditions</i>	0	0	0	0	0	2	2	2	0	0	6
Accidents and adverse effects	0	0	0	0	1	1	0	3	3	0	8
Homicide	0	0	1	0	0	1	0	0	0	0	2
All other causes	1	2	2	1	3	7	1	4	2	2	25
Unknown	0	1	0	0	0	0	0	2	0	1	4
All causes	14	10	22	12	19	127	35	73	39	16	367

MARRIAGE

There were 9,921 marriages performed in New Hampshire in 1998, a decrease of 75 marriages from 1997. While the annual number of marriages has hovered at just under 10,000 over the past five years, the marriage rate is at its lowest point on record at 8.4 marriages per 1,000 population. The marriage rate, which had experienced a dramatic decline since the twenty-year relative maximum of 11.6 in 1984, has stabilized in recent years though it continues a slow decline. During the years 1984 through 1991, the marriage rate declined by 23.3%. In comparison, the rate has decreased only 5.6% between 1991 and 1998. New Hampshire's state rate of 8.4 per 1,000 population is equivalent to the 1998 provisional overall US rate.⁵²

First marriages for both the bride and groom, as a percentage of total marriages, decreased from 49.5% in 1997 to 48.4% in 1998. During that same time, the percentage of three or more marriages for either the bride or groom increased from 15.0% to 15.2%. The median ages of brides and grooms has remained stable over the past two years at 29 and 31 respectively. Marriages involving at least one minor (under the age of 18) have decreased from 35 in 1997 to 28 in 1998.

The proportion of grooms who had completed 12 or more years of education has increased from 89.5% in 1997 to 90.2% in 1998. The percentage of brides with 12 or more years of education increased from 92.1% to 92.5% over that same period. The proportion of brides completing at least one year of college was 59.5% compared to 52.5% of grooms, while 31.0% of brides and 29.9% of grooms completed four or more years of college. The above proportions represent slight increases above the 1997 proportions of 57.7%, 51.9%, 30.1%, and 29.3% respectively.

79. Marriages by County of Issuance ■ New Hampshire, 1998

County	Marriages
Belknap	501
Carroll	441
Cheshire	623
Coos	257
Grafton	662
Hillsborough	2,834
Merrimack	1,006
Rockingham	2,468
Strafford	828
Sullivan	301
Total	9,921

80. Marriages by Town and County of Issuance⁵³ ■ New Hampshire, 1998

Marriages		Marriages	
Belknap County			
Alton	29	Rindge	78
Barnstead	32	Roxbury	0
Belmont	49	Stoddard	7
Center Harbor	13	Sullivan	5
Gilford	50	Surry	2
Gilmanton	18	Swanzey	30
Laconia	166	Troy	24
Meredith	74	Walpole	29
New Hampton	12	Westmoreland	9
Sanbornton	21	Winchester	43
Tilton	37	County Total	623
County Total	501		
Carroll County		Coos County	
Albany	5	Berlin	56
Bartlett	29	Cambridge	0
Brookfield	0	Carroll	13
Chatham	0	Clarksville	3
Conway	132	Colebrook	22
Eaton	4	Columbia	7
Effingham	1	Dalton	9
Freedom	10	Dixville	0
Hart's Location	6	Dummer	0
Jackson	29	Errol	0
Madison	10	Gorham	29
Moultonborough	34	Jefferson	10
Ossipee	34	Lancaster	35
Sandwich	8	Milan	9
Tamworth	24	Northumberland	20
Tuftonboro	9	Pittsburg	5
Wakefield	28	Randolph	3
Wolfeboro	78	Shelburne	1
County Total	441	Stark	1
		Stewartstown	11
Cheshire County		Stratford	4
Alstead	11	Whitefield	19
Chesterfield	22	County Total	257
Dublin	7		
Fitzwilliam	12	Grafton County	
Gilsum	4	Alexandria	11
Harrisville	16	Ashland	19
Hinsdale	28	Bath	9
Jaffrey	48	Benton	1
Keene	223	Bethlehem	19
Marlborough	13	Bridgewater	4
Marlow	2	Bristol	69
Nelson	3	Campton	18
Richmond	7	Canaan	29
		Dorchester	2
		Easton	0

80. Marriages by Town and County of Issuance ■ New Hampshire, 1998 (continued)

Marriages		Marriages	
Ellsworth	0	Merrimack	143
Enfield	39	Milford	89
Franconia	3	Mont Vernon	8
Grafton	7	Nashua	808
Groton	3	New Boston	1
Hanover	51	New Ipswich	20
Haverhill	38	Pelham	134
Hebron	3	Peterborough	41
Holderness	2	Sharon	0
Landaff	3	Temple	8
Lebanon	113	Weare	38
Lincoln	14	Wilton	22
Lisbon	13	Windsor	0
Littleton	64	County Total	2,834
Livermore	0		
Lyman	2	Merrimack County	
Lyme	9	Allenstown	34
Monroe	7	Andover	14
Orange	2	Boscawen	25
Orford	8	Bow	27
Piermont	4	Bradford	14
Plymouth	52	Canterbury	9
Rumney	9	Chichester	19
Sugar Hill	9	Concord	388
Thornton	9	Danbury	5
Warren	0	Dunbarton	11
Waterville	5	Epsom	25
Wentworth	0	Franklin	71
Woodstock	12	Henniker	21
County Total	662	Hill	7
		Hooksett	57
Hillsborough County		Hopkinton	37
Amherst	41	Loudon	26
Antrim	17	New London	33
Bedford	90	Newbury	10
Bennington	15	Northfield	42
Brookline	20	Pembroke	57
Deering	10	Pittsfield	33
Francestown	5	Salisbury	5
Goffstown	100	Sutton	9
Greenfield	7	Warner	16
Greenville	20	Webster	7
Hancock	19	Wilmot	4
Hillsborough	47	County Total	1,006
Hollis	59		
Hudson	134	Rockingham County	
Litchfield	51	Atkinson	28
Lyndeborough	7	Auburn	35
Manchester	874	Brentwood	15
Mason	6	Candia	1

80. Marriages by Town and County of Issuance ■ New Hampshire, 1998 (continued)

Marriages		Marriages	
Chester	14	Strafford County	
Danville	0	Barrington	42
Deerfield	21	Dover	262
Derry	325	Durham	37
East Kingston	10	Farmington	42
Epping	55	Lee	18
Exeter	108	Madbury	11
Fremont	16	Middleton	1
Greenland	13	Milton	29
Hampstead	53	New Durham	10
Hampton	173	Rochester	252
Hampton Falls	14	Rollinsford	18
Kensington	9	Somersworth	89
Kingston	44	Strafford	17
Londonderry	123	County Total	828
New Castle	32		
Newfields	5	Sullivan County	
Newington	4	Acworth	0
Newmarket	64	Charlestown	31
Newton	22	Claremont	114
North Hampton	34	Cornish	11
Northwood	17	Croydon	3
Nottingham	15	Goshen	8
Plaistow	92	Grantham	8
Portsmouth	306	Langdon	5
Raymond	66	Lempster	2
Rye	46	Newport	67
Salem	480	Plainfield	7
Sandown	22	Springfield	1
Seabrook	117	Sunapee	33
South Hampton	1	Unity	8
Stratham	27	Washington	3
Windham	61	County Total	301
County Total	2,468	New Hampshire Total	9,921

81. Number of Marriages for Bride by Number of Marriages for Groom ■ New Hampshire, 1998

This Marriage for Groom	This Marriage for Bride					Total
	First	Second	Third	Fourth	Fifth or more	
First	4,803	1,204	165	21	12	6,205
Second	952	1,457	369	62	15	2,855
Third	132	342	171	46	16	707
Fourth	15	56	37	19	5	132
Fifth or more	8	8	4	2	0	22
Total	5,910	3,067	746	150	48	9,921

82. Marriage Occurrences by Age when License was Issued ■ New Hampshire, 1998

Age of Groom	Age of Bride															Groom Total
	<16	16-17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	≥ 75	
16-17	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2
18-19	0	10	90	35	7	0	1	0	0	0	0	0	0	0	0	143
20-24	1	13	217	954	227	33	19	2	1	0	0	0	0	0	0	1,467
25-29	1	1	50	810	1,327	331	98	19	9	2	1	0	0	0	0	2,649
30-34	0	0	8	210	721	624	236	58	25	5	1	0	0	0	0	1,888
35-39	0	0	7	66	242	400	366	121	50	7	1	0	0	0	0	1,260
40-44	0	0	3	7	81	185	284	248	94	38	5	2	0	0	0	947
45-49	0	0	0	1	25	61	128	161	155	40	16	1	0	0	0	588
50-54	0	0	0	0	10	20	58	91	105	101	31	3	1	0	0	420
55-59	0	0	1	0	4	6	18	41	47	72	42	8	3	0	1	243
60-64	0	0	0	0	1	0	4	10	21	37	39	19	6	0	0	137
65-69	0	0	0	0	0	0	0	1	6	13	14	22	11	4	1	72
70-74	0	0	0	0	0	0	1	3	1	8	7	8	19	11	5	63
≥ 75	0	0	0	0	0	0	0	0	2	3	4	1	9	12	11	42
Bride Total	2	24	377	2,084	2,645	1,660	1,213	755	516	326	161	64	49	27	18	9,921

83. Education of Bride by Education of Groom for Marriage Occurrences ■ New Hampshire, 1998

Last Grade Completed by Groom	Last Grade Completed by Bride										Not Stated	Groom Total
	≤ 8 th grade	High School 1 yr	High School 2 yrs	High School 3 yrs	High School 4 yrs	College 1 yr	College 2 yrs	College 3 yrs	College 4 yrs	College > 4 yrs		
8 th grade or less	33	15	11	9	60	7	16	4	5	2	0	162
1 yr High School	7	16	9	19	75	13	13	3	4	0	0	159
2 yrs High School	19	9	30	35	124	26	26	4	3	0	0	276
3 yrs High School	9	15	33	48	151	34	32	11	11	2	1	347
4 yrs High School	24	49	104	142	1,906	352	506	136	362	160	3	3,744
1 yr College	1	4	8	14	199	183	121	46	90	43	1	710
2 yrs College	3	5	11	13	337	157	265	59	227	116	0	1,193
3 yrs College	1	1	1	5	71	42	50	44	84	40	1	340
4 yrs College	2	2	6	3	227	123	284	67	806	313	0	1,833
Over 4 yrs College	1	0	2	3	115	53	100	54	334	468	0	1,130
Not Stated	0	0	1	0	3	1	2	0	1	1	18	27
Bride Total	100	116	216	291	3,268	991	1,415	428	1,927	1,145	24	9,921

DIVORCE

In 1998, 6,078 divorces were granted in New Hampshire, marking an increase of 6.6% from 1997. The divorce rate increased from 4.9 per 1,000 population in 1997 to 5.1 in 1998. Those rates were notably higher than the rates of 4.3 and 4.5 posted in 1995 and 1996. The 1998 divorce rate was 21% greater than the preliminary US rate of 4.2 per 1,000 population.⁵⁴

While divorces in New Hampshire have increased, marriages have decreased. This has resulted in a decline in the ratio of marriages to divorces from 1.8 in 1997 to 1.6 in 1998. This downward trend began after the ratio's previous high of 2.0 was recorded in 1995.

Marriages ending in divorce in 1998 experienced a median duration of nine years, the same length as those ending in 1997. The time required to finalize the divorce process, however, decreased from an average of ten months in 1997 to nine months in 1998.

Divorces involving minor children totaled 3,704 in 1998, 60.9% of all divorces. The 6,783 minors concerned in these divorces represented an increase of 6.1% from 1997. Of the 3,343 divorces requiring an award of physical custody of minor children in 1998, 91.8% were either uncontested or defaulted. The mother was awarded physical custody in 67.7% of those cases, a decrease from the 71.4% reported in 1997. The number of contested physical award cases increased from 220 in 1997 to 275 in 1998. In those cases, the proportion of cases awarded to the mother increased from 68.6% in 1997 to 72.0% in 1998.

The frequency of multiple divorces in New Hampshire has increased along with the divorce rate. The proportion of individuals divorcing and ending their second marriage (or more) increased from 27.6% in 1993 to 29.1% in 1998.

84. Divorce Occurrences by County Issuing Decree of Dissolution ■ New Hampshire, 1998

County	Divorces
Belknap	263
Carroll	208
Cheshire	335
Coos	176
Grafton	442
Hillsborough	1,689
Merrimack	718
Rockingham	1,437
Strafford	602
Sullivan	208
Total	6,078

85. Marriage Duration in Years for Divorce Occurrences ■ New Hampshire, 1998

Marriage Duration	Divorces
Less than 1 year	93
1 to 2 years	650
3 to 4 years	776
5 to 9 years	1,666
10 to 14 years	1,220
15 to 19 years	734
20 to 24 years	439
At least 25 years	500
Total	6,078

86. Divorce Occurrences by Number of Marriage for Husband ■ New Hampshire, 1998

Number of Marriage for Husband	Divorces
First	4,312
Second	1,356
Third	334
Fourth	64
Fifth or more	12
Total	6,078

87. Divorce Occurrences by Number of Marriage for Wife ■ New Hampshire, 1998

Number of Marriage for Wife	Divorces
First	4,301
Second	1,368
Third	316
Fourth	77
Fifth or more	16
Total	6,078

88. Divorce Occurrences by County Issuing Decree of Dissolution by Petitioner ■ New Hampshire, 1998

County	Husband	Wife	Both	Not Stated	Total
Belknap	88	162	13	0	263
Carroll	70	135	3	0	208
Cheshire	107	213	15	0	335
Coos	61	112	3	0	176
Grafton	97	196	148	1	442
Hillsborough	613	1,033	41	2	1,689
Merrimack	242	452	23	1	718
Rockingham	449	758	218	12	1,437
Strafford	209	385	7	1	602
Sullivan	73	130	2	3	208
Total	2,009	3,576	473	20	6,078

89. Legal Custody of Children for Divorce Occurrences ■ New Hampshire, 1998

Legal Custody of Children	Divorces
No children involved	2,727
Joint (Mother and Father)	3,034
Mother	256
Father	45
Welfare	0
Probation department	0
Court	0
Joint (Other)	0
Other	15
Split ⁵⁵	1
Total	6,078

90. Divorce Occurrences Involving Minor Children⁵⁶ Residing in Household by County Issuing Decree of Dissolution ■ New Hampshire, 1998

County	Cases	Minors
Belknap	173	326
Carroll	130	252
Cheshire	193	363
Coos	128	239
Grafton	239	420
Hillsborough	1,006	1,851
Merrimack	436	802
Rockingham	876	1,577
Strafford	380	692
Sullivan	143	261
Total	3,704	6,783

91. Divorce Occurrences Involving an Award of Physical Custody of Minor Children by County Issuing Decree of Dissolution ■ New Hampshire, 1998

County	Cases	Children Involved
Belknap	143	266
Carroll	120	227
Cheshire	172	320
Coos	115	203
Grafton	222	371
Hillsborough	926	1,640
Merrimack	382	663
Rockingham	802	1,393
Strafford	339	566
Sullivan	122	218
Total	3,343	5,867

92. Uncontested Award of Physical Custody of Minor Children by County Issuing Decree of Dissolution for Divorce Occurrences ■ New Hampshire, 1998

County	Cases	Children Involved
Belknap	130	247
Carroll	94	179
Cheshire	159	287
Coos	94	163
Grafton	198	328
Hillsborough	774	1,379
Merrimack	327	566
Rockingham	707	1,223
Strafford	297	495
Sullivan	109	189
Total	2,889	5,056

93. Award of Physical Custody of Minor Children in Uncontested Cases ■ New Hampshire, 1998

Physical Custody of Children	Cases		Children Involved	
	Number	Percentage	Number	Percentage
Mother only	1,929	66.8	3,360	66.5
Father only	271	9.4	461	9.1
Joint (Mother and Father)	596	20.6	1,015	20.1
Other only	14	0.5	18	0.4
Split ⁵⁵	(Mother)		101	2.0
	(Father)		87	1.7
	(Joint)	79	12	0.2
	(Other)		2	0.0
Total	2,889	100	5,056	100

94. Defaulted Award of Physical Custody of Minor Children by County Issuing Decree of Dissolution for Divorce Occurrences ■ New Hampshire, 1998

County	Cases	Children Involved
Belknap	10	14
Carroll	9	14
Cheshire	6	12
Coos	12	23
Grafton	11	21
Hillsborough	58	85
Merrimack	28	47
Rockingham	21	34
Strafford	16	27
Sullivan	8	20
Total	179	297

95. Award of Physical Custody of Minor Children in Defaulted Cases ■ New Hampshire, 1998

Physical Custody of Children	Cases		Children Involved	
	Number	Percentage	Number	Percentage
Mother only	147	82.1	240	80.8
Father only	21	11.7	39	13.1
Joint (Mother and Father)	5	2.8	5	1.7
Other only	3	1.7	6	2.0
(Mother)			4	1.3
Split ⁵⁵ (Father)	3	1.7	2	0.7
(Other)			1	0.3
Total	179	100	297	100

96. Contested Award of Physical Custody of Minor Children by County Issuing Decree of Dissolution for Divorce Occurrences ■ New Hampshire, 1998

County	Cases	Children Involved
Belknap	3	5
Carroll	17	34
Cheshire	7	21
Coos	9	17
Grafton	13	22
Hillsborough	94	176
Merrimack	27	50
Rockingham	74	136
Strafford	26	44
Sullivan	5	9
Total	275	514

97. Award of Physical Custody of Minor Children in Contested Cases ■ New Hampshire, 1998

Physical Custody of Children	Cases		Children Involved	
	Number	Percentage	Number	Percentage
Mother only	198	72.0	368	71.6
Father only	40	14.5	71	13.8
Joint (Mother and Father)	29	10.5	46	8.9
Other only	3	1.1	8	1.6
(Mother)			7	1.4
Split ⁵⁵ (Father)	5	1.8	5	1.0
(Joint)			8	1.6
(Other)			1	0.2
Total	275	100	514	100

NOTES

¹ Rates for major events are per 1,000 population, with the exception of the Infant Mortality rate, which is calculated based upon 1,000 live births.

² Birth refers to a live birth, which is the complete expulsion or extraction from the mother of a product of human conception, irrespective of the duration of pregnancy which, after such expulsion or extraction, breathes or shows any evidence of life, such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles, whether or not the umbilical cord has been severed or the placenta is attached.

³ Infant mortality is death under one year of age.

⁴ Fetal mortality is the death prior to the complete expulsion or extraction from the mother of a product of human conception, when the length of gestation period has been 20 weeks or more, and/or the weight of the fetus is 350 grams or more. Death is indicated by the fact that after such separation, the fetus does not breathe or show any other evidence of life, such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles.

⁵ Marriage occurrences are reported according to the city or town issuing the marriage license rather than the location of the marriage ceremony.

⁶ Divorces include legal separations and annulments.

⁷ Annual Age structures were extrapolated from 1990 US Census Bureau enumerations, and the N.H. Office of State Planning year 2000 population projections. These were applied to the annual N.H. Office of State Planning estimates of the total population.

⁸ Source: N.H. Office of State Planning year 2000 Projections.

⁹ Source: N.H. Office of State Planning Annual Estimates.

¹⁰ Source: N.H. Office of State Planning Annual Estimates.

¹¹ National Vital Statistics Reports, NCHS, CDC, v.48, n.3, 2000.

¹² Ibid.

¹³ Ibid.

¹⁴ National Vital Statistics Reports, NCHS, CDC, v.48, n.3, 2000, National Vital Statistics Reports, NCHS, CDC, v.47, n.10, 1998

¹⁵ National Vital Statistics Reports, NCHS, CDC, v.48, n.3, 2000.

¹⁶ Ibid.

¹⁷ National Vital Statistics Reports, NCHS, CDC, v.47, n.24, 1999

¹⁸ National Vital Statistics Reports, NCHS, CDC, v.48, n.3, 2000.

¹⁹ A birth occurring in New Hampshire, regardless of the residency of the mother.

²⁰ The birth of an infant whose mother reports her usual place of residence as New Hampshire, regardless of where the birth occurred.

²¹ New Hampshire Total refers to the total number of births that occurred to New Hampshire residents.

²² The number of births to a woman produced in the same gestational period.

²³ Tabulations are based on birth events occurring within New Hampshire rather than commonly used resident births. This method was chosen since the values of interest are hospital based, rather than population based.

²⁴ Method of Delivery: notation provided by the birth attendant as to the procedure used for delivery of the baby.

²⁵ An infant's weight of less than 2,500 grams (5.5 lbs.) recorded at birth.

²⁶ An infant's weight of less than 1,500 grams (3.3 lbs.) recorded at birth.

- 27 Less than 37 completed weeks elapsed between the first day of the last normal menstrual period and the date of delivery.
- 28 Mother initiated prenatal care in the first trimester of pregnancy.
- 29 Mother initiated prenatal care in the last trimester of pregnancy or obtained no prenatal care.
- 30 Mother unmarried, other than those identified as married at birth, conception or any time in between.
- 31 Births where Medicaid has paid for prenatal care, delivery, or both.
- 32 Tobacco use at any point during pregnancy.
- 33 Alcohol consumption at any point during pregnancy.
- 34 Births where mothers didn't complete high school. Differentials based on education level may reflect actual differences in knowledge as well as socioeconomic differences because women with more education tend to have higher family income levels (US Bureau of the Census, 1990).
- 35 A single birth record may contain more than one occurrence.
- 36 A single birth record may contain more than one occurrence.
- 37 A single birth record may contain more than one complication.
- 38 National Vital Statistics Reports, NCHS, CDC, v.48, n.11, 2000.
- 39 Ibid.
- 40 Ibid.
- 41 Total number of mortalities includes one case where the cause of death is unknown and is therefore excluded from statistical analyses in this report with the exception of analyses of race, Hispanic origin and places of death.
- 42 Underlying causes of death (specific diseases, conditions or injuries that initiated events leading to death) have been classified using the automated system, known as ACME (Automated Classification of Medical Entries). The system provides for computer assigning of the underlying cause of death in accordance with decision rules specified in the computer program. The rules are the same as those applied by nosologists in assigning underlying causes of death. Nosologist application of the rules may sometimes contain error. ACME is said to eliminate this avenue of error since the exact same criteria are applied in every case in the machine process. Underlying causes of death in this report are comparable to those appearing in National Vital Statistics Reports.
- 43 Two major factors affect the interpretation and comparability of underlying cause of death statistics over time: changes in the scheme for classifying the causes, and changes in diagnostic practices. The classification scheme, the International Classification of Diseases (ICD), had been modified approximately once every ten years to reflect changes in medical opinion and practices. The current revision, the ninth, was issued in 1978. Causes of death statistics in this report reflect the use of the ninth version of the ICD. Effective with calendar year 1999, mortality data will utilize the tenth revision of ICD (ICD10). To compare mortality statistics from one revision of the ICD to the next, it is necessary to use "comparability ratios." Comparability ratios provide a measure of how much discontinuity exists in the mortality data resulting from the introduction of a new revision for the ICD. Such ratios are developed by comparing the number of deaths assigned to a cause, or group of causes, in the previous revision to the number of deaths assigned in the next revision.
- 44 The standard population is the enumerated 1940 United States population.
- 45 US White Rate is for 1998.
- 46 National Vital Statistics Reports, NCHS, CDC, v.48, n.11, 2000.
- 47 Ibid.
- 48 National Vital Statistics Reports, NCHS, CDC, v. 45, n.11s2, 1997.
- 49 Infant Mortality: death under one year of age.
- 50 Includes some deaths where the time of birth and death is unavailable and records only show that the infant was less than 1 day old at death.

⁵¹ Rate is per 1,000 live births.

⁵² National Vital Statistics Report, NCHS, CDC, v.47, n.21, 1999.

⁵³ City includes some unincorporated locations as well as locations incorporated for voting purposes only.

⁵⁴ National Vital Statistics Report, NCHS, CDC, v.47, n.21, 1999.

⁵⁵ Split: Custody split between mother, father, and other parties, with at least one child awarded to mother or at least one child awarded to father.

⁵⁶ Minor Children: The number of children under age 18 as of date couple last resided in the same household.

RESIDENT RATE FORMULAS

$$\text{Age-Adjusted Mortality Rate}^{40} = \sum \left(\frac{\text{Resident age - specific mortality rate per 100,000} * \text{proportion of standard population in corresponding age group}}{\text{proportion of standard population in corresponding age group}} \right)$$

$$\text{Age-Specific Mortality Rate} = \frac{\text{Resident deaths in specific age group}}{\text{Total resident population in specific group}} * 100,000$$

$$\text{Birth Rate} = \frac{\text{Resident live births}}{\text{Total resident population}} * 1,000$$

$$\text{Crude Mortality Rate} = \frac{\text{Resident deaths}}{\text{Total resident population}} * 1,000$$

$$\text{Divorce Rate} = \frac{\text{Sum of divorces, separations and legal separations}}{\text{Total resident population}} * 1,000$$

$$\text{Fetal Mortality Rate} = \frac{\text{Resident fetal deaths}}{\text{Sum of resident live births and fetal deaths}} * 1,000$$

$$\text{Infant Mortality Rate} = \frac{\text{Resident infant deaths}}{\text{Total resident live births}} * 100,000$$

$$\text{Marriage Rate} = \frac{\text{Marriages}}{\text{Total resident population}} * 1,000$$

$$\text{Years of Productive Life Lost Rate} = \frac{\text{Sum of years of life lost}}{\text{Total resident population < 65 years of age}} * 100,000$$